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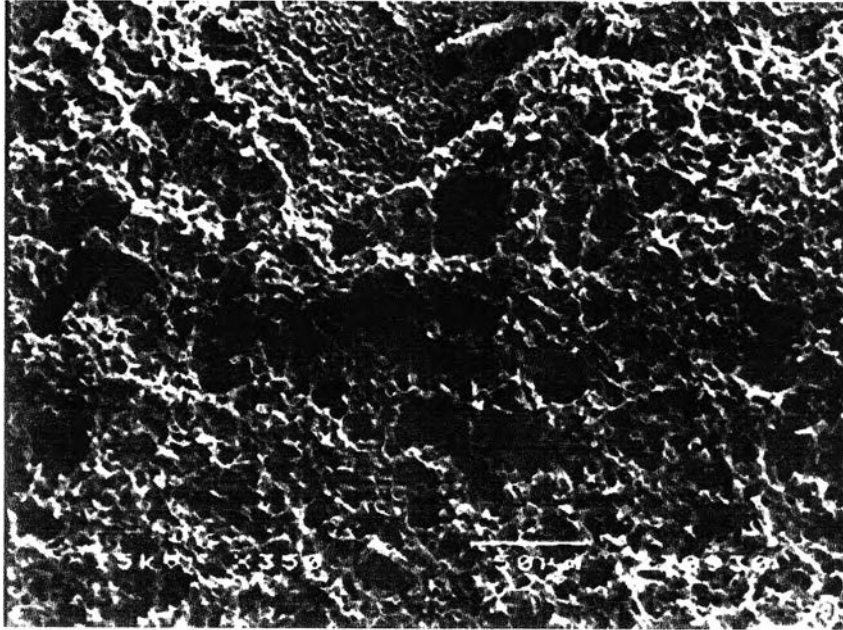
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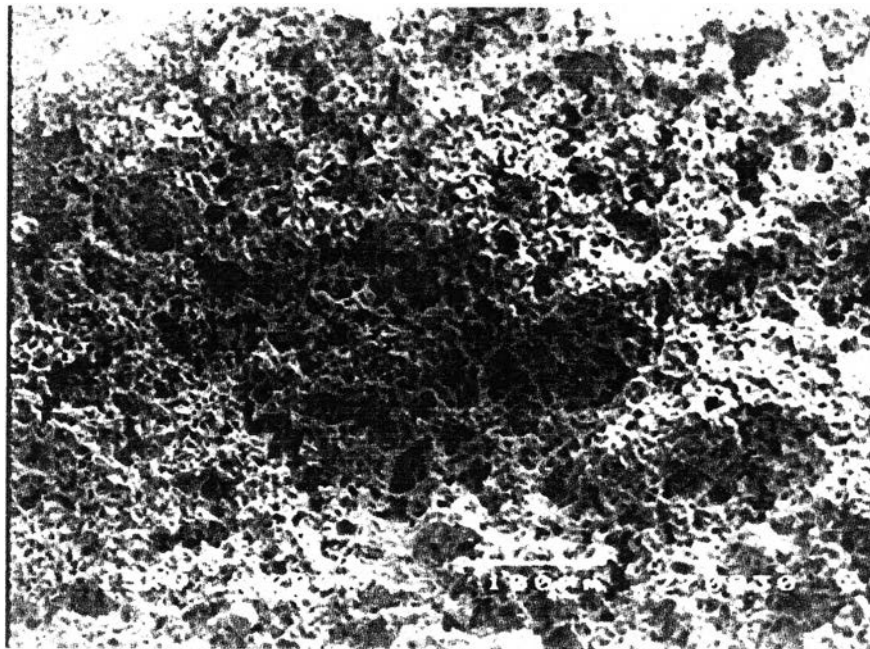
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APPENDICES

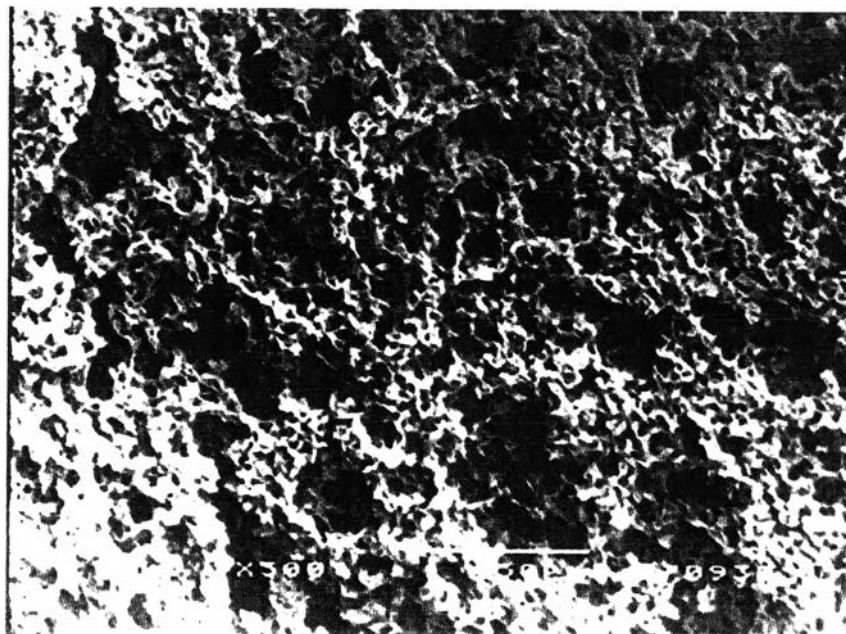
Appendix I : Morphology in CHAPTER IV



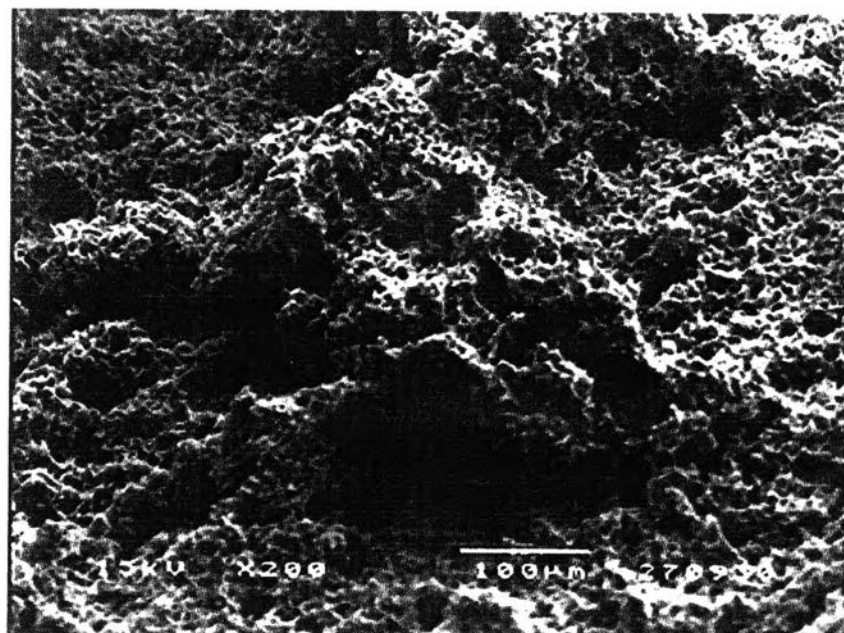
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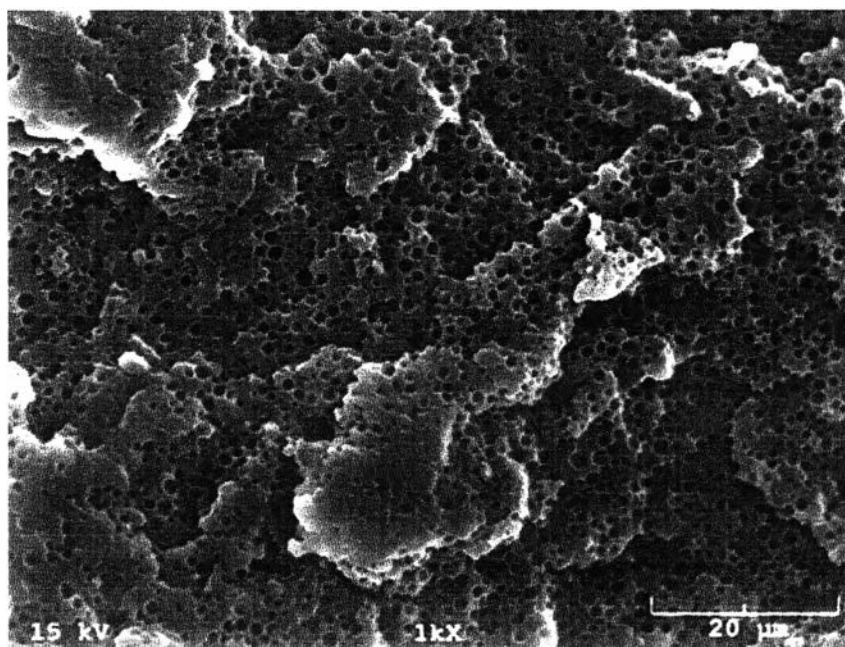
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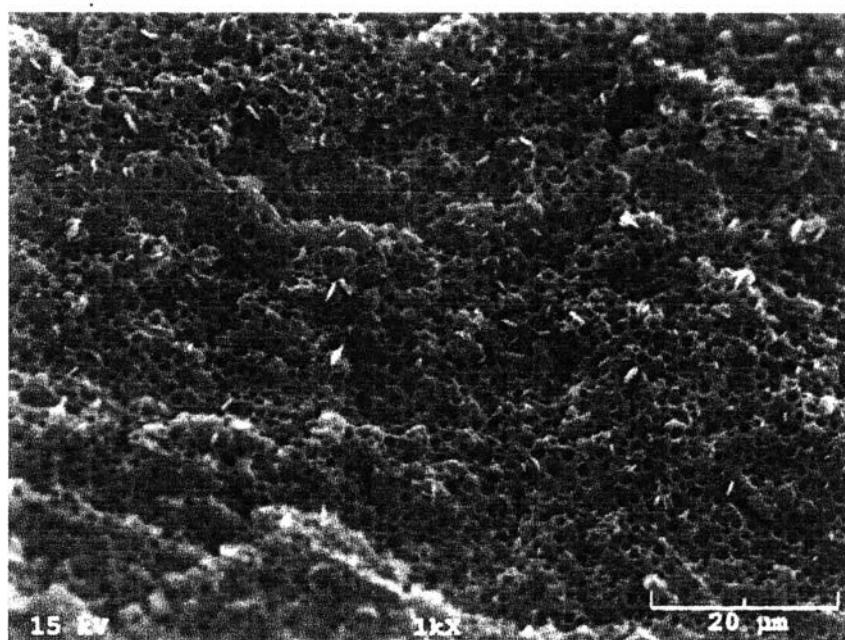
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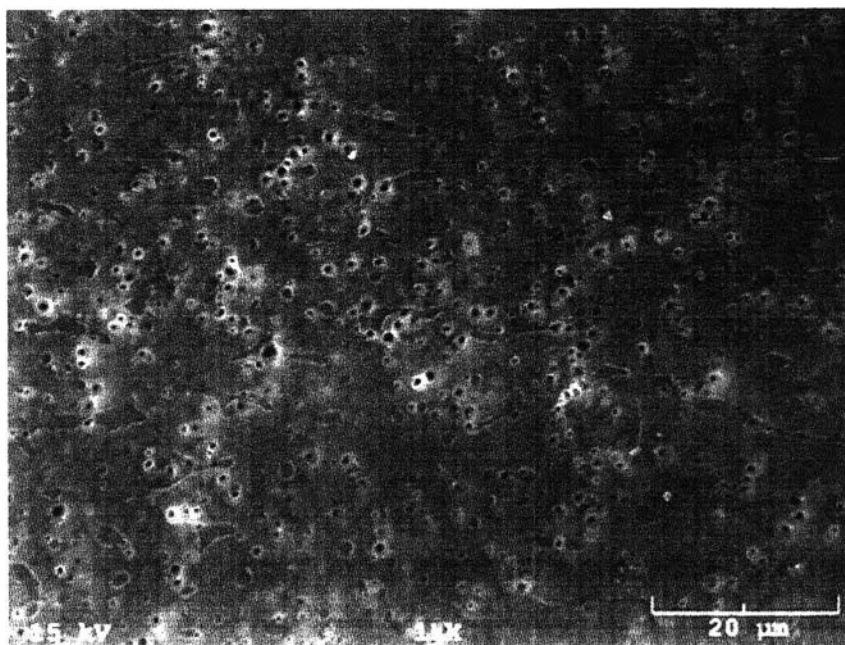
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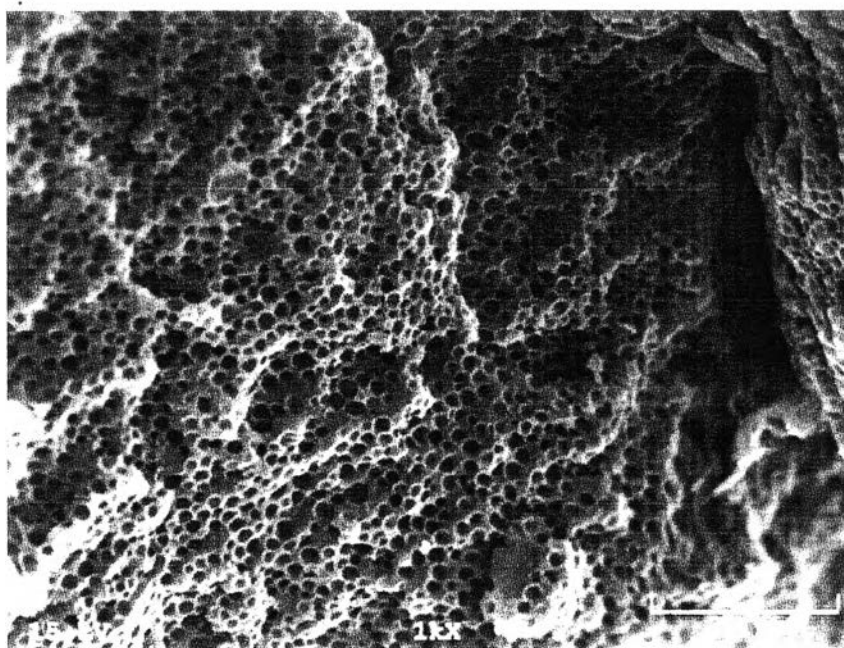
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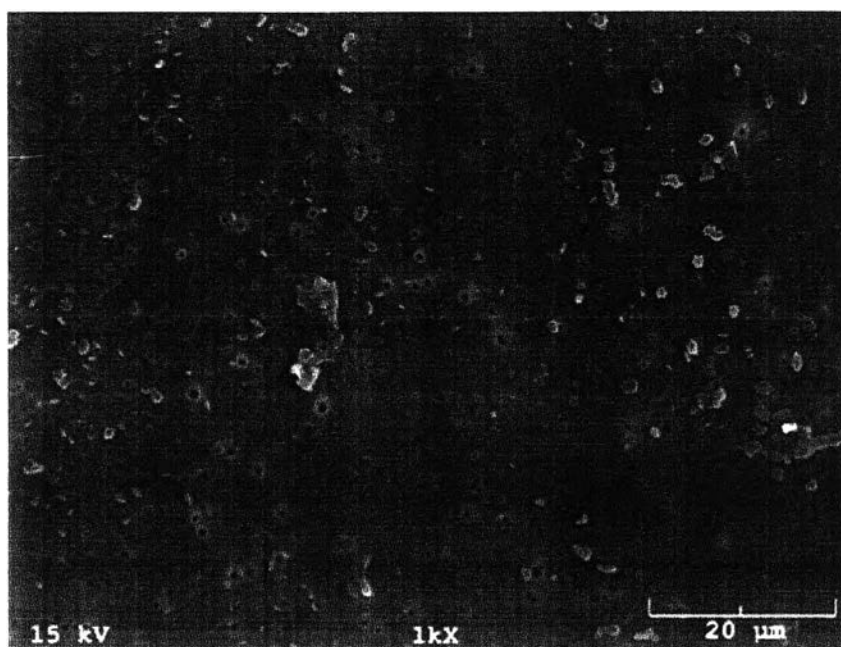
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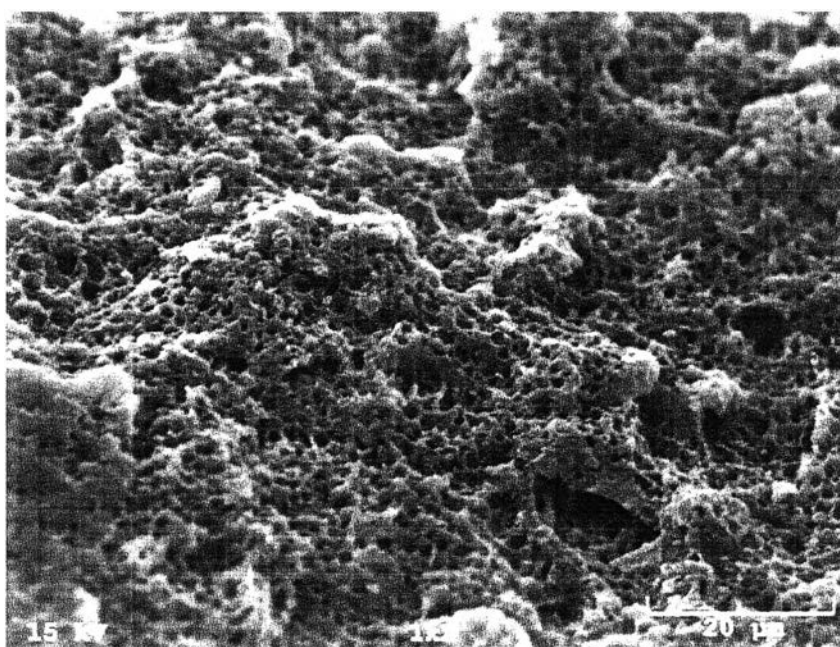
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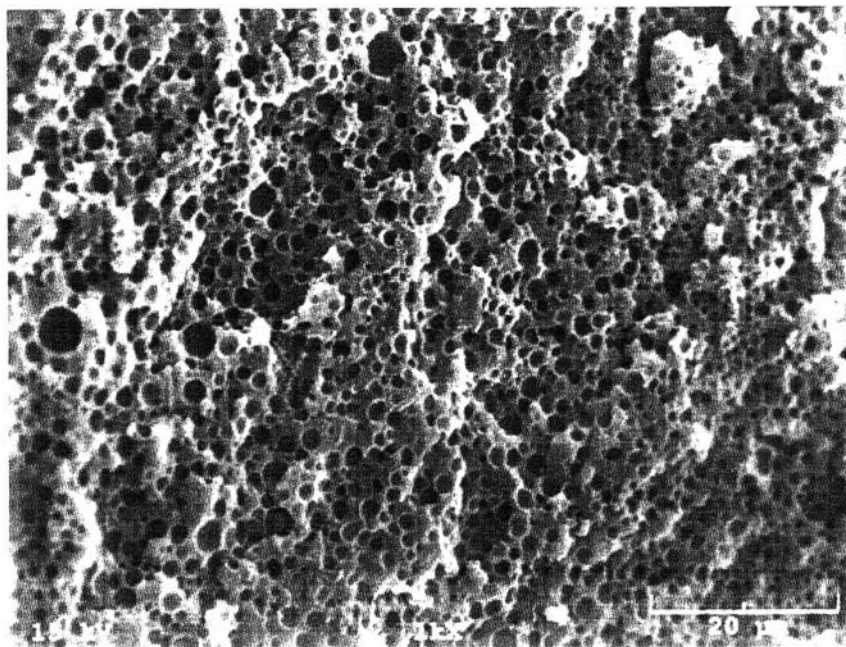
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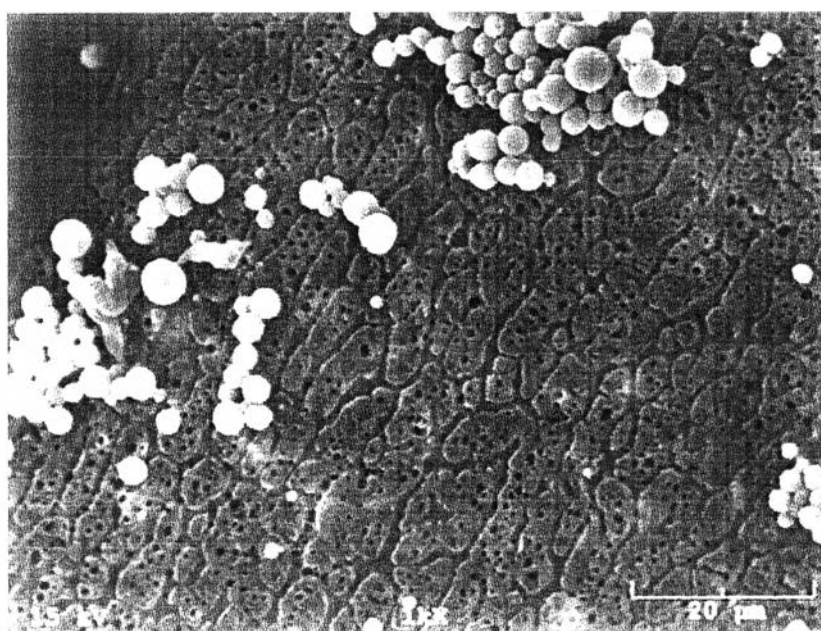
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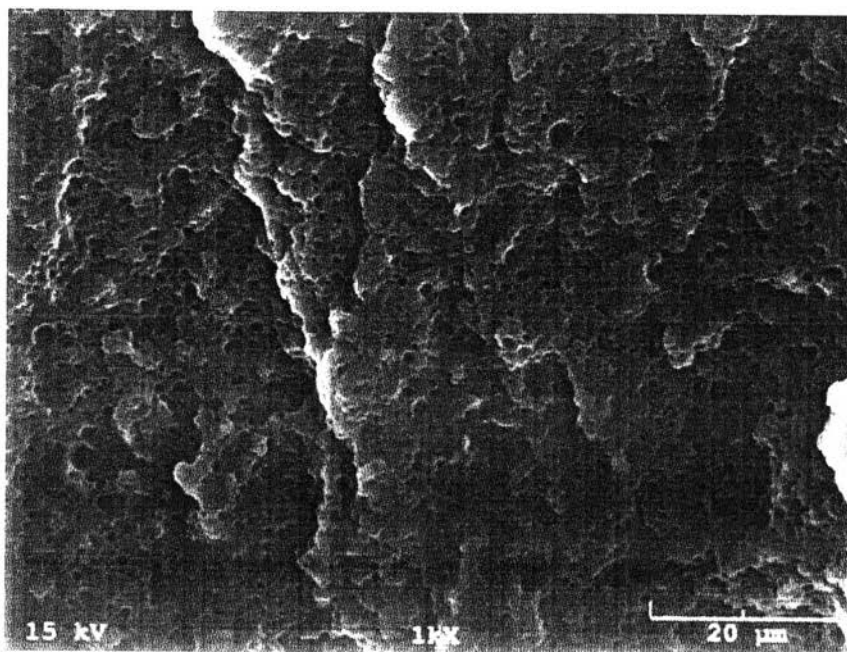
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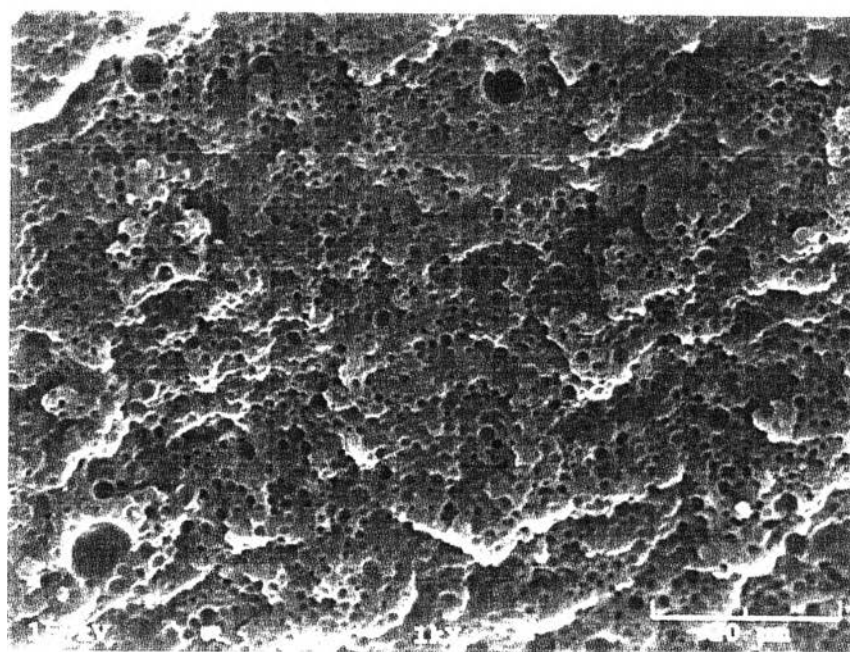
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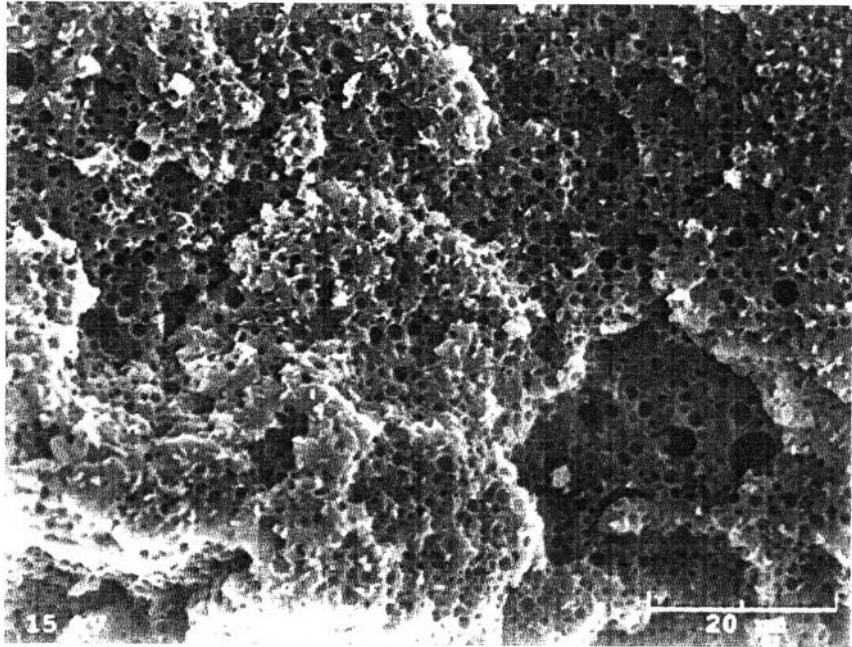
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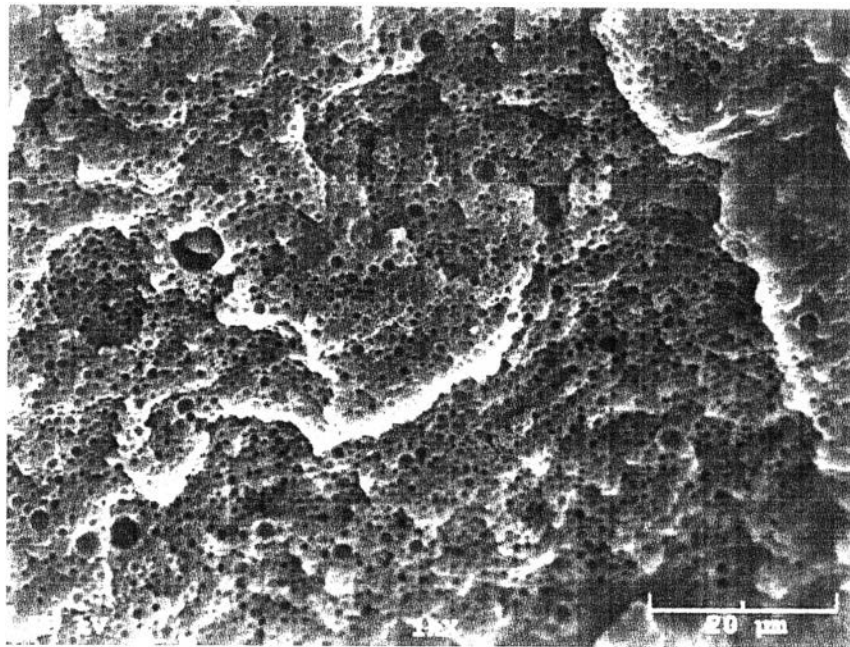
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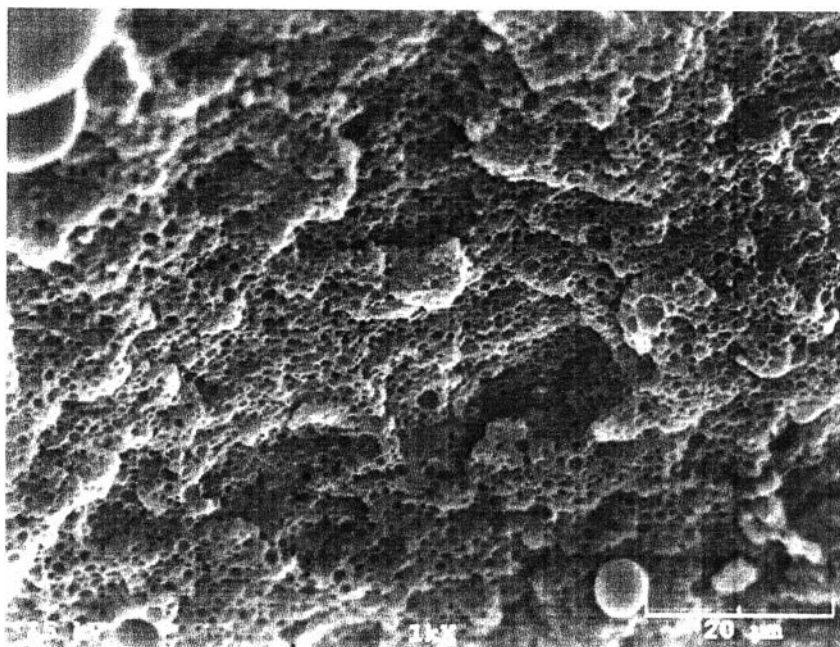
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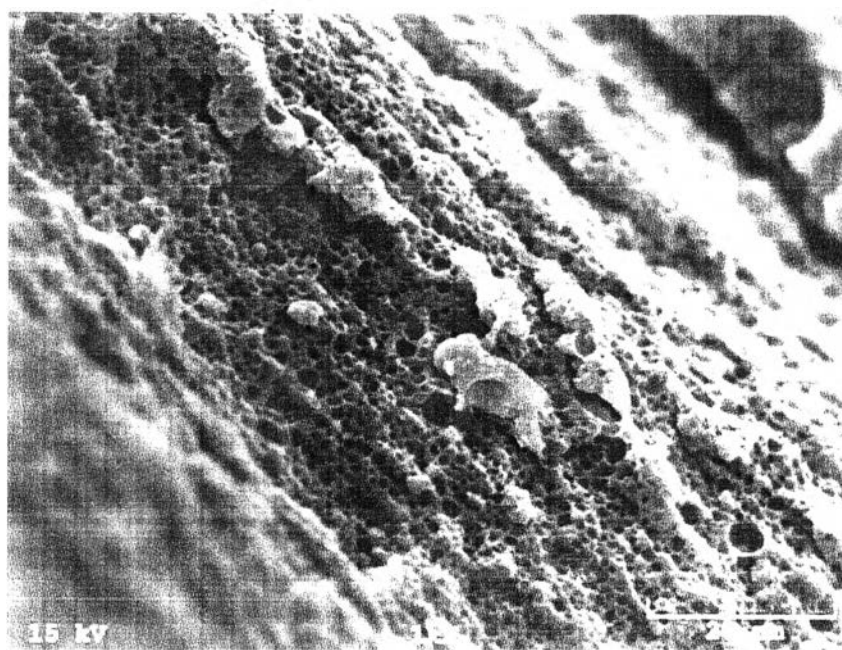
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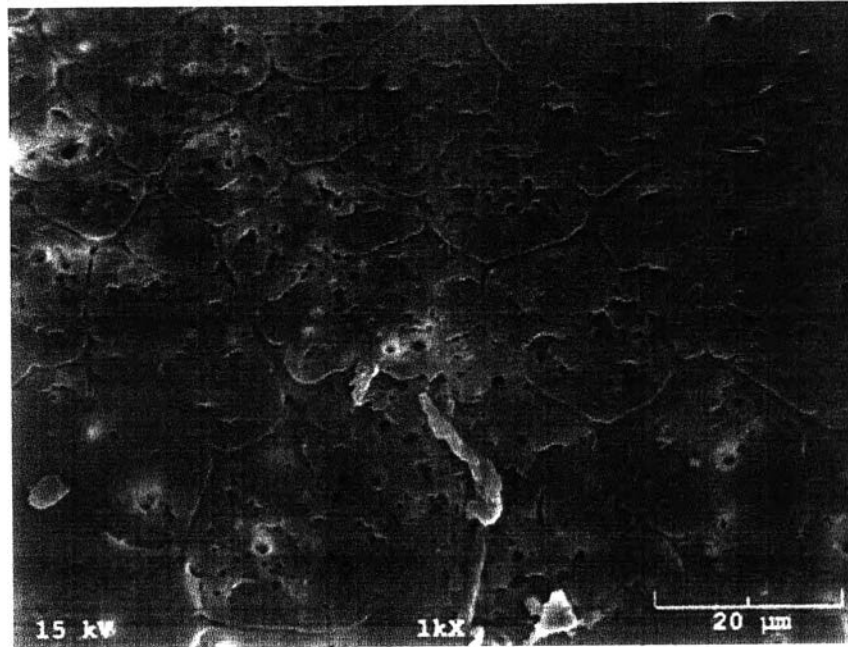
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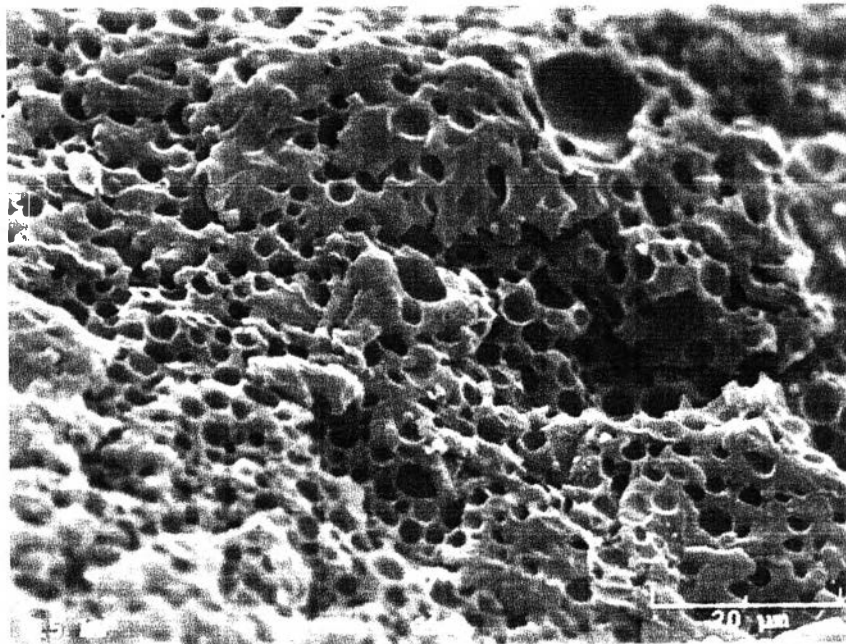
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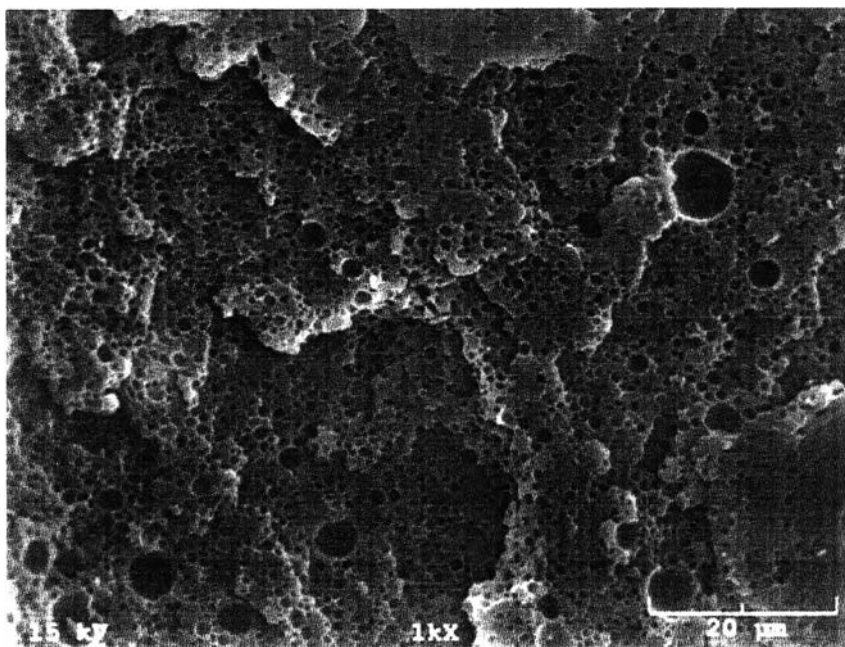
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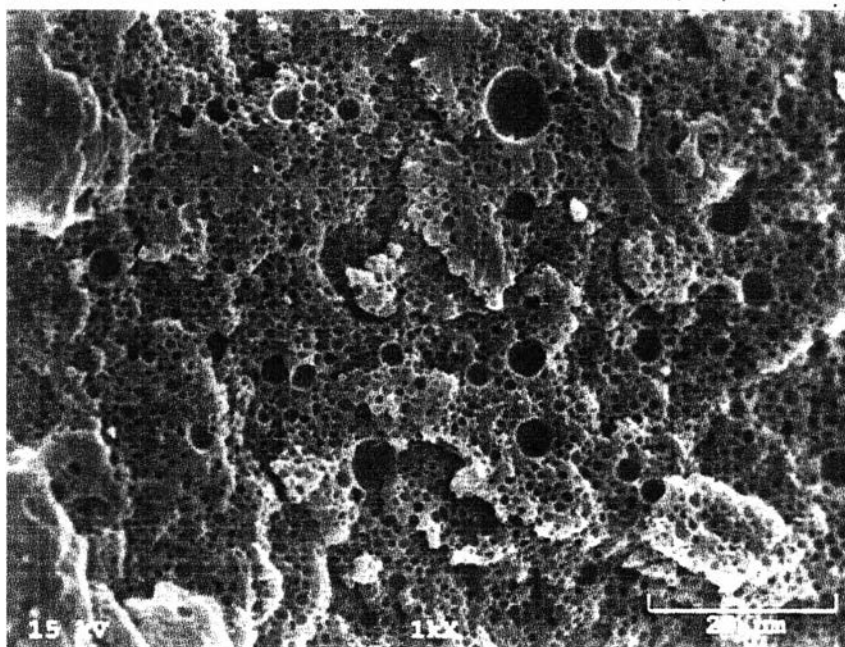
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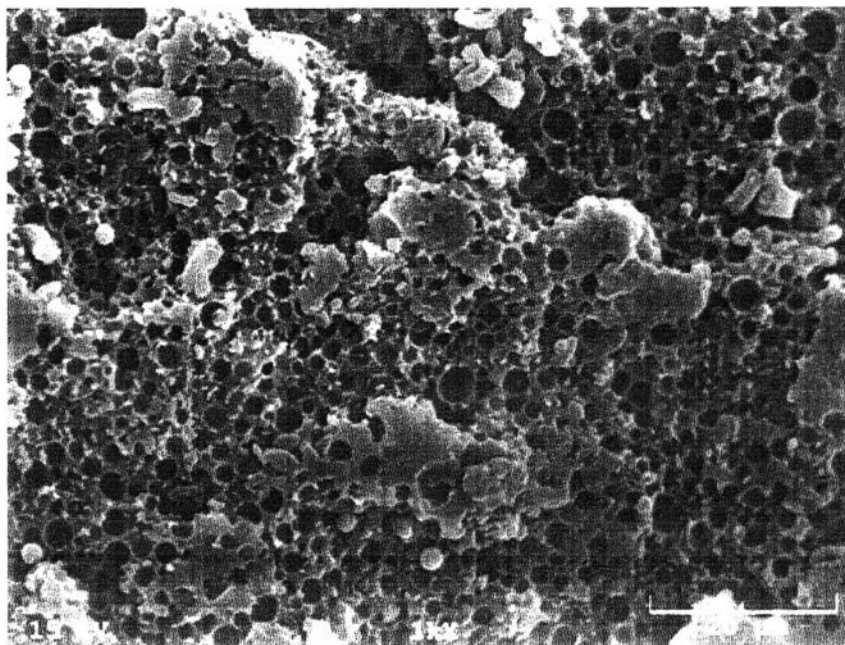
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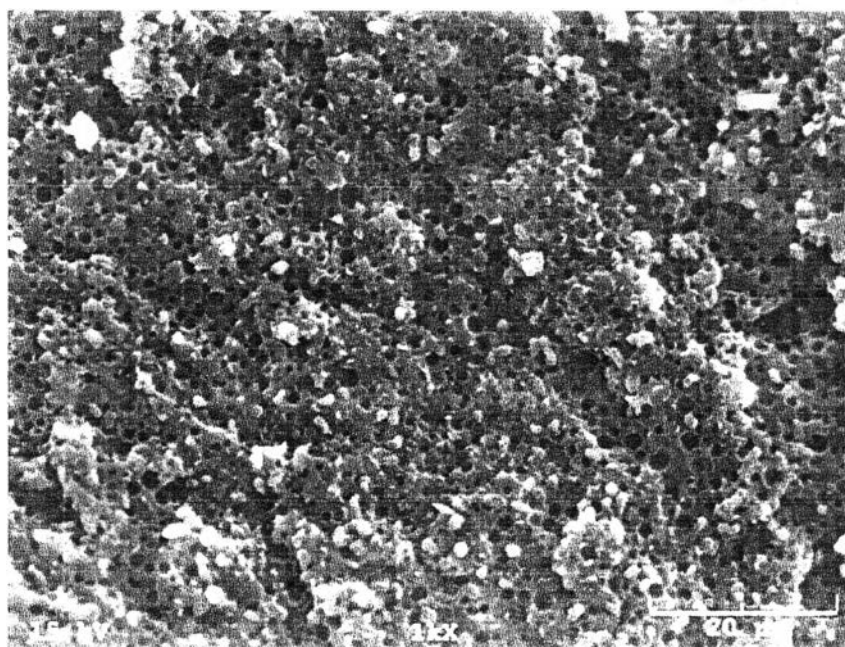
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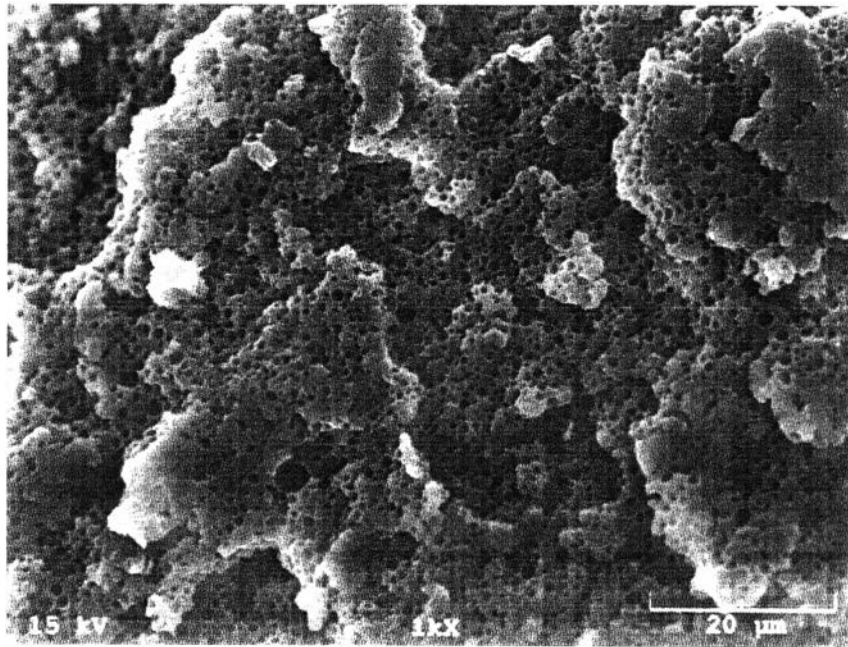
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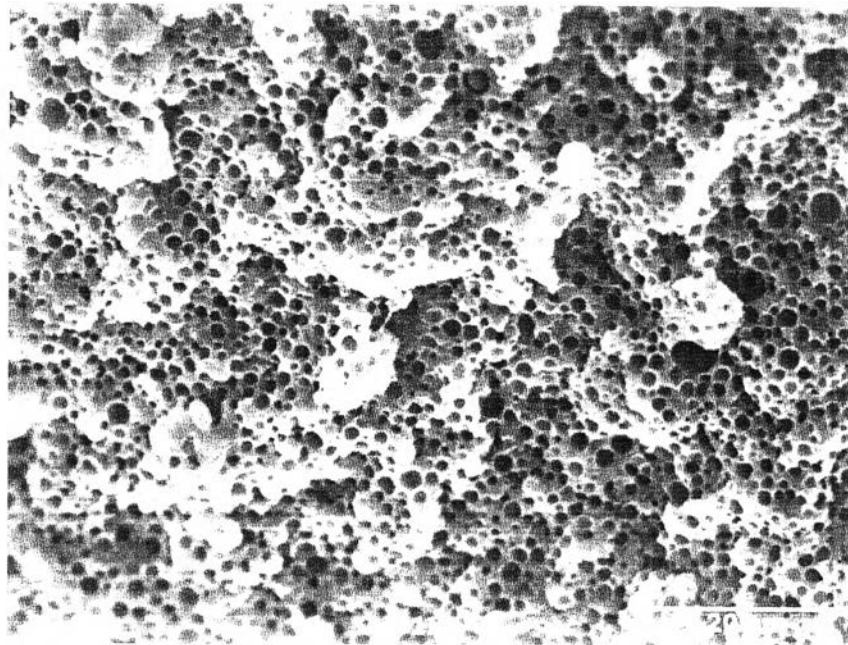
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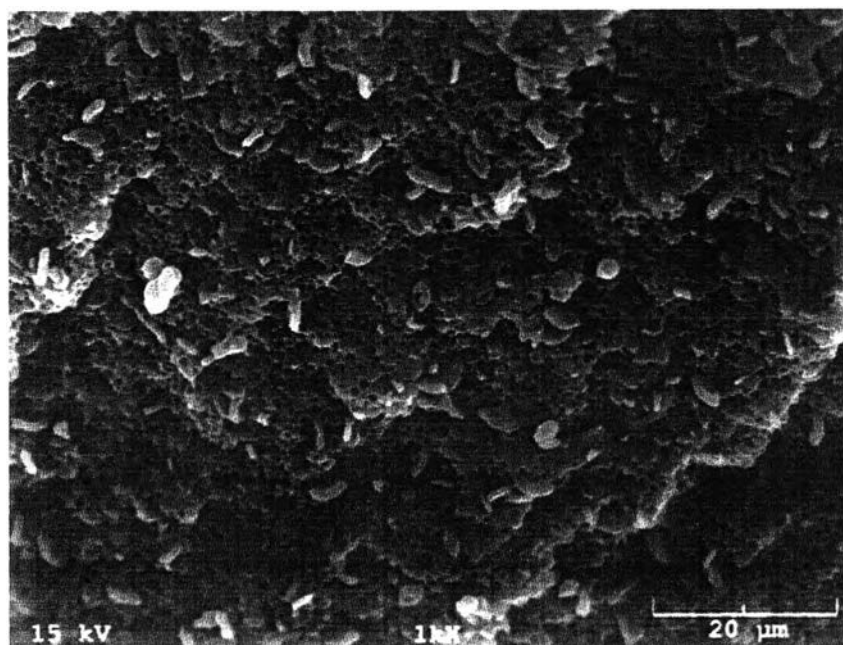
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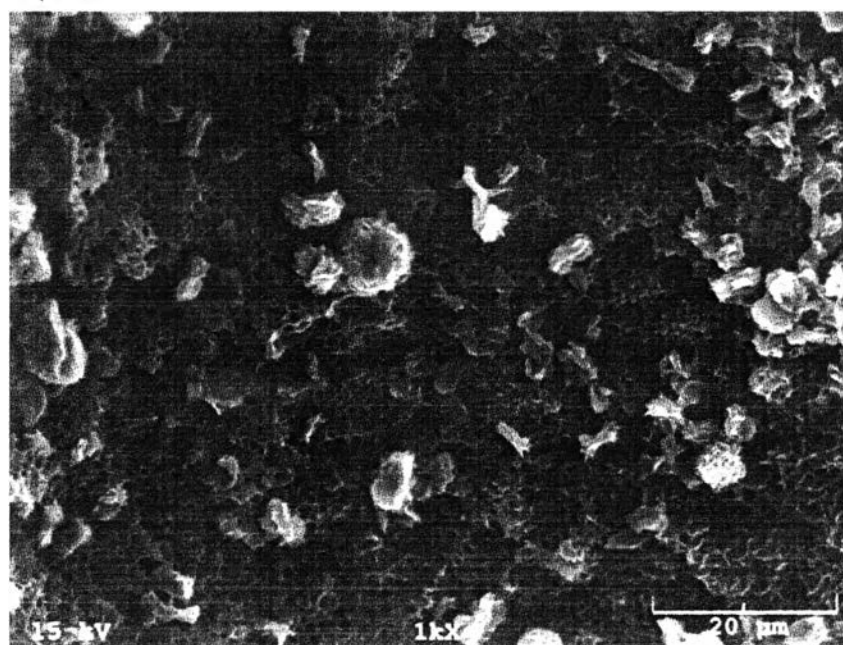
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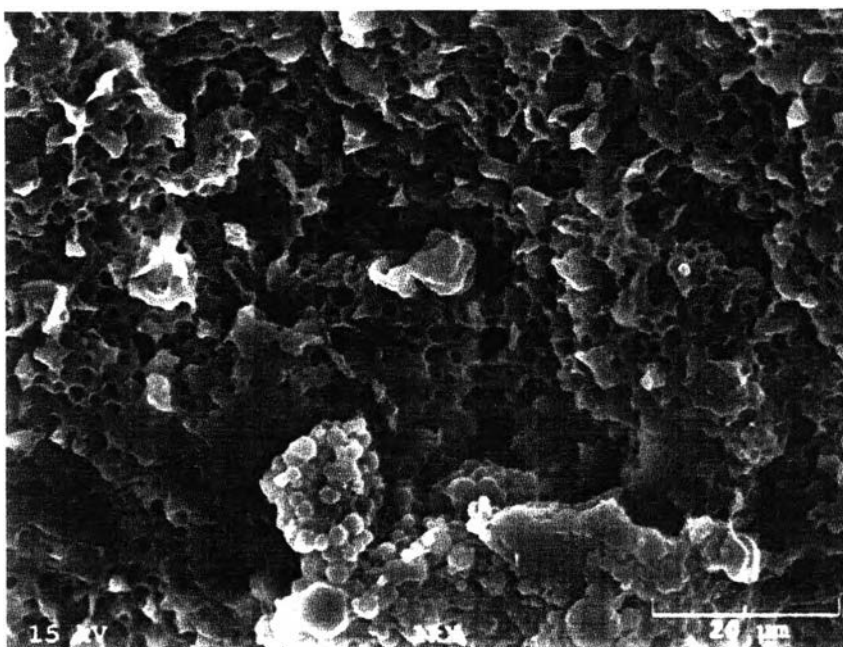
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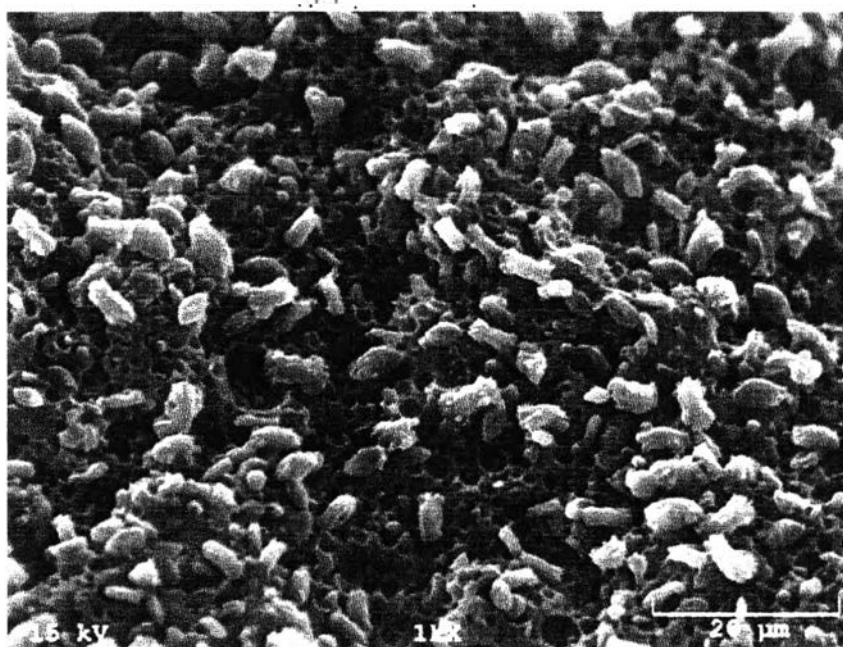
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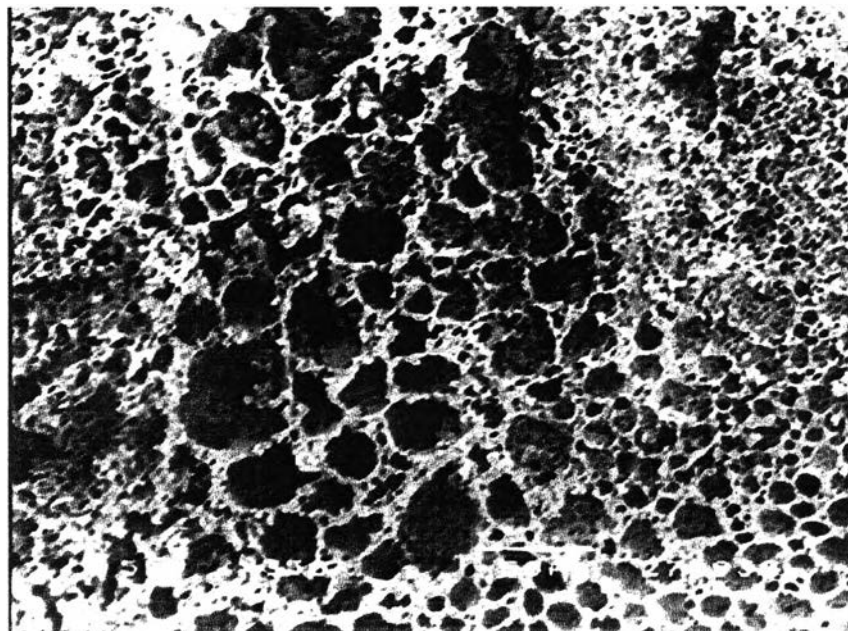
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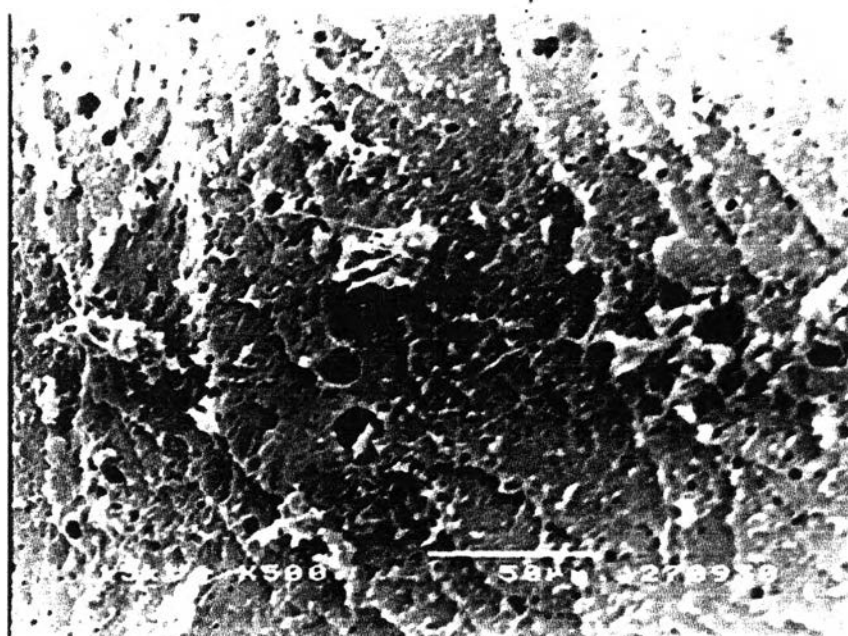
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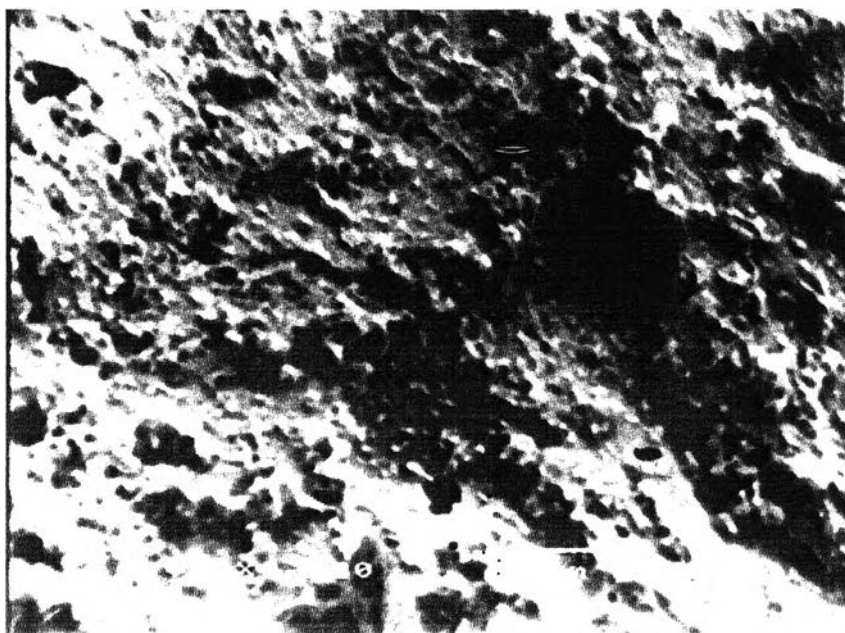
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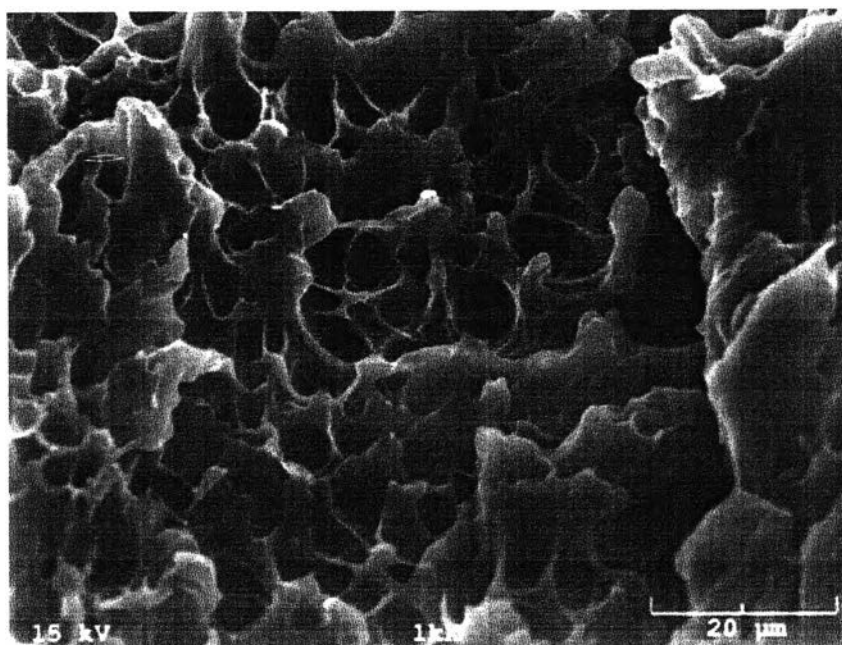
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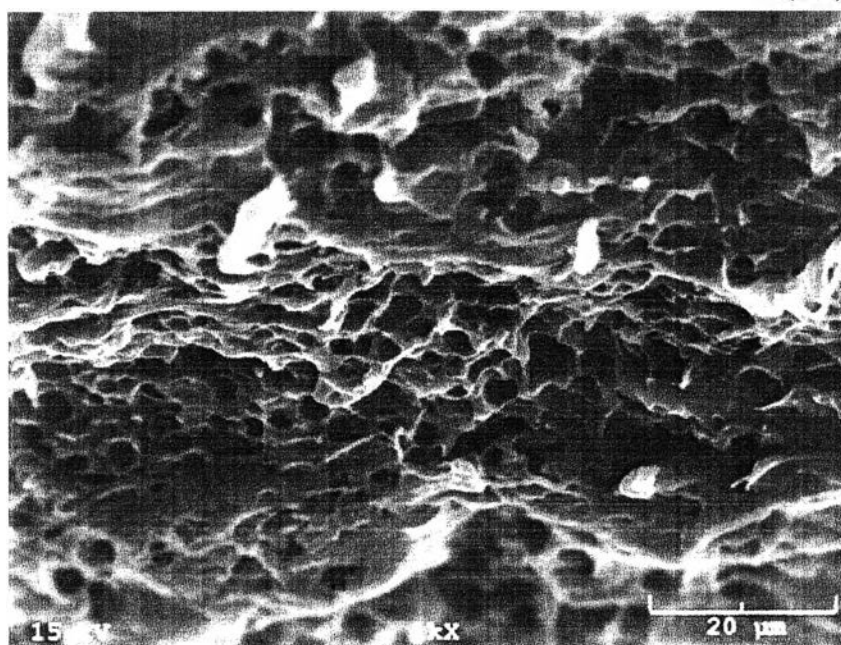
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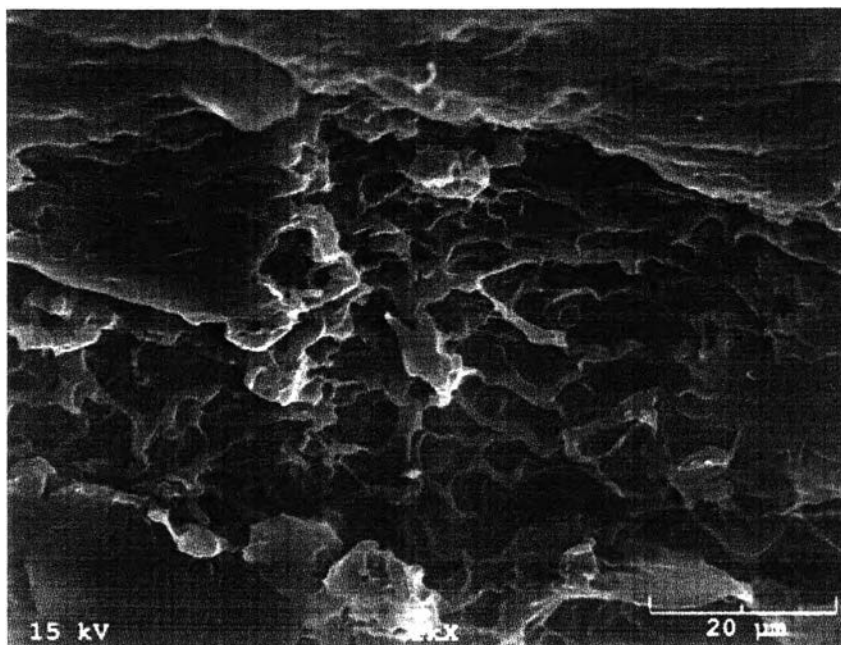
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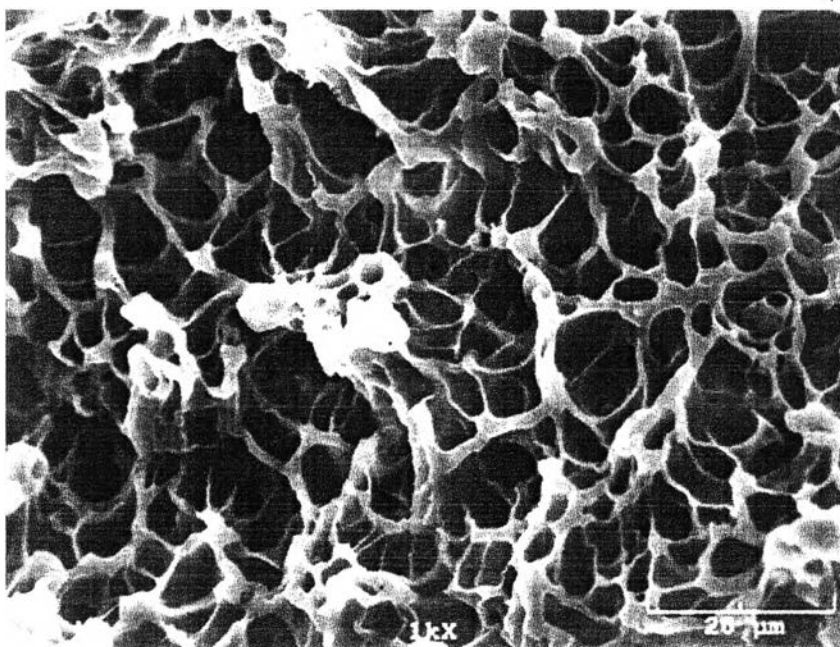
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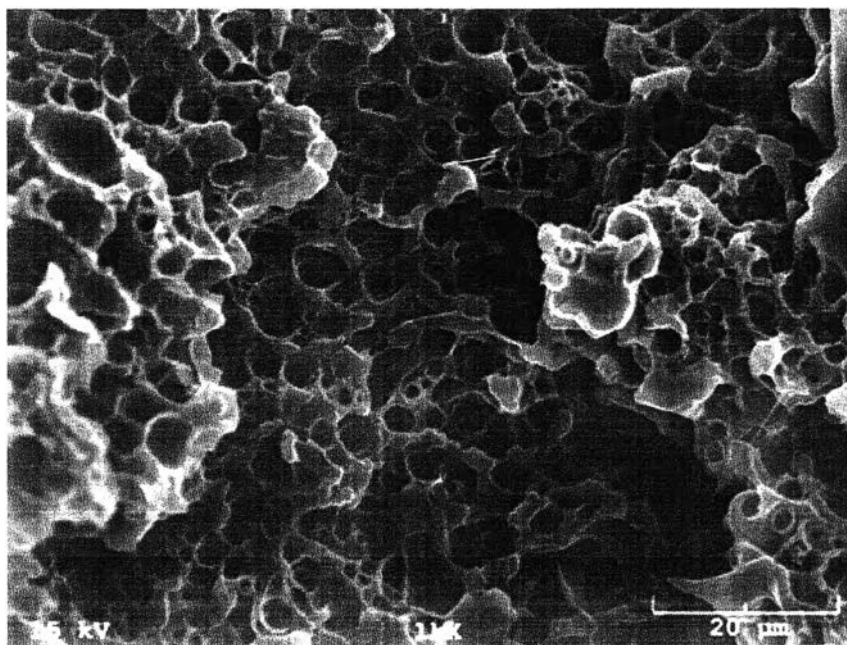
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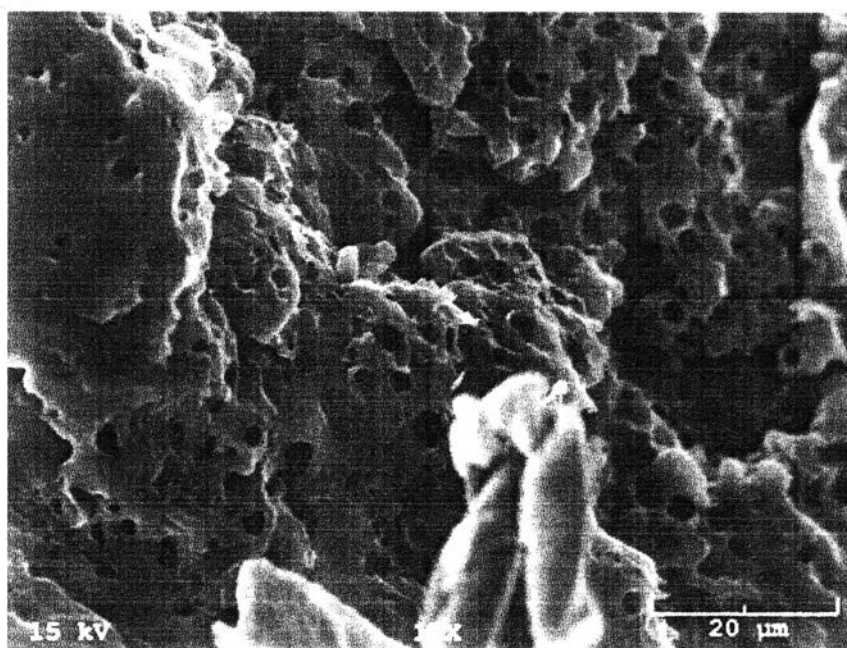
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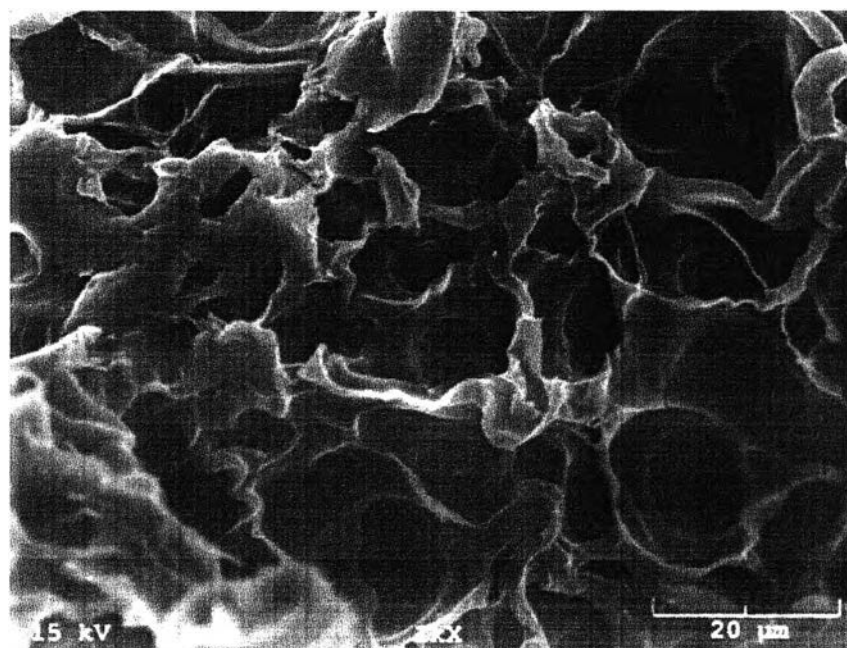
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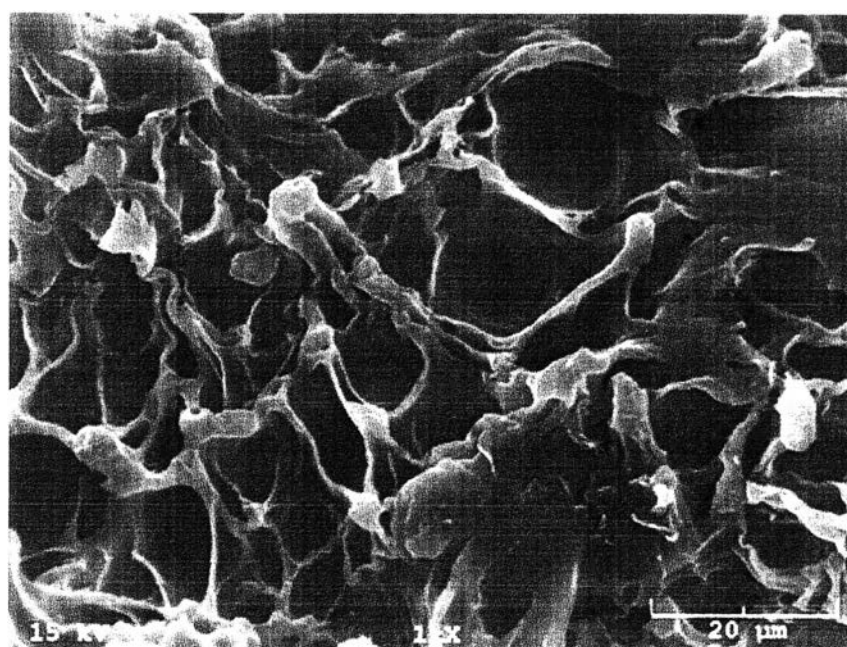
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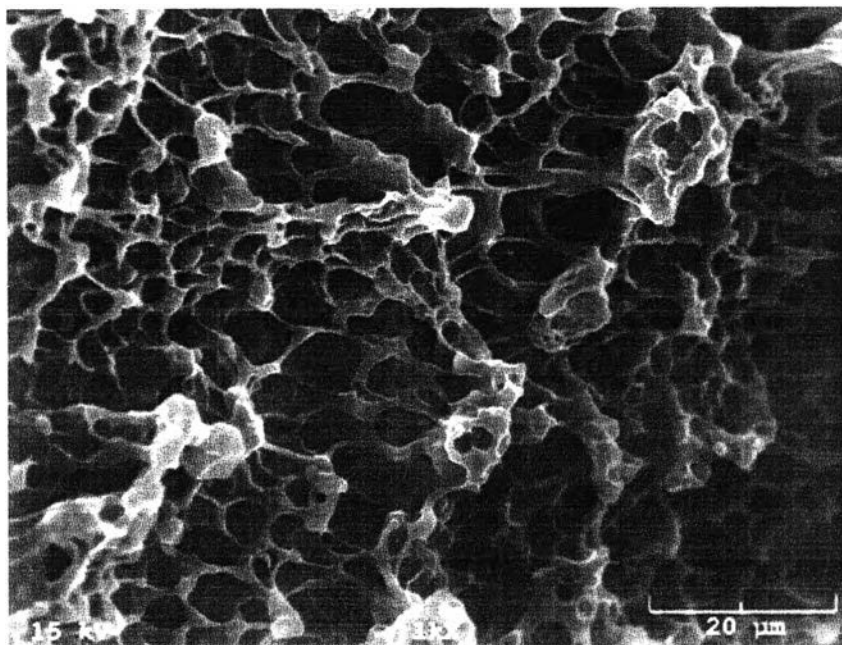
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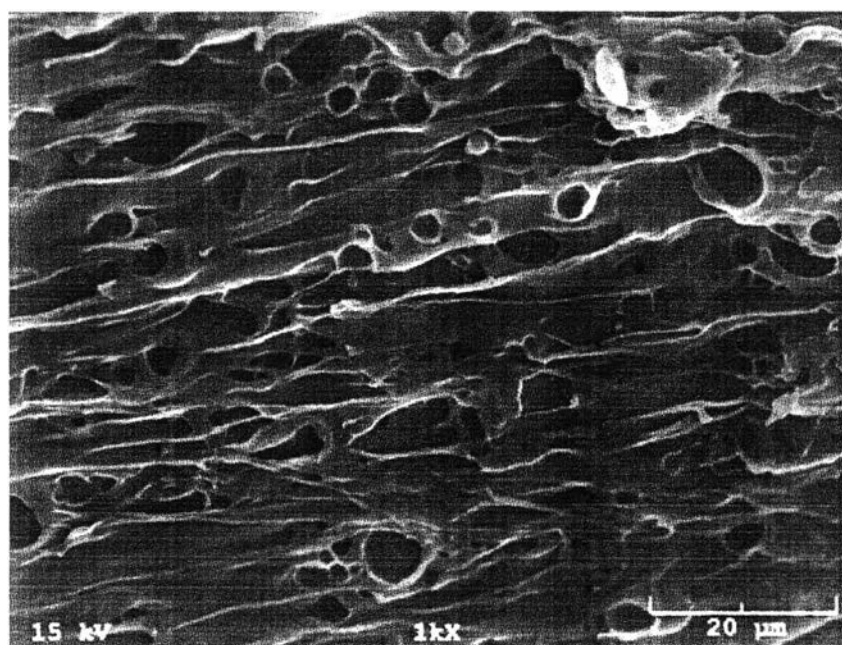
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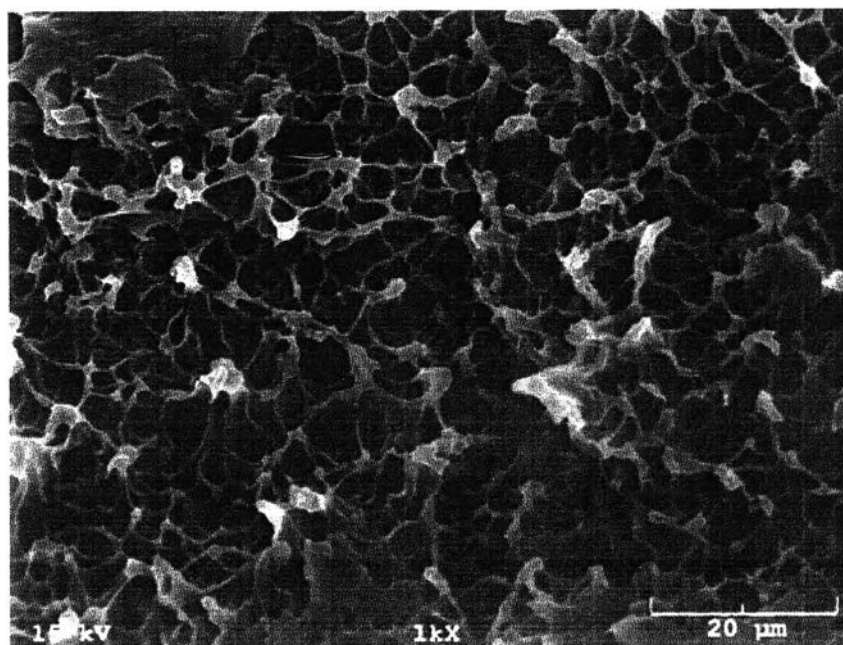
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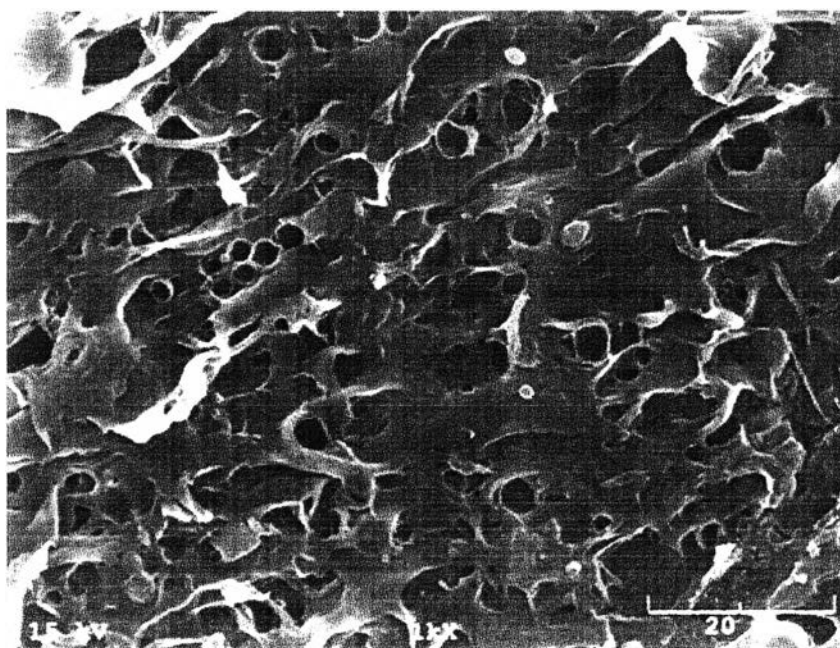
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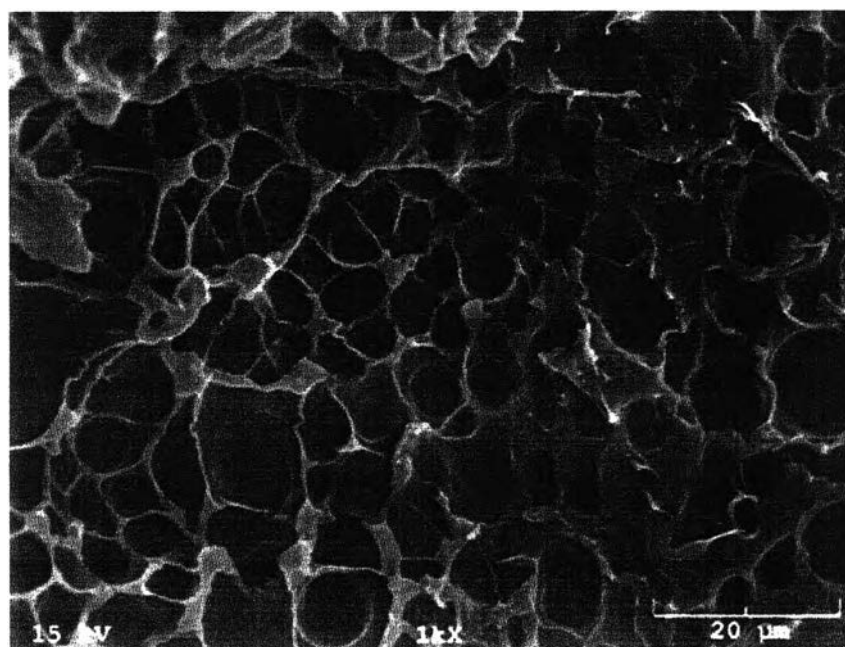
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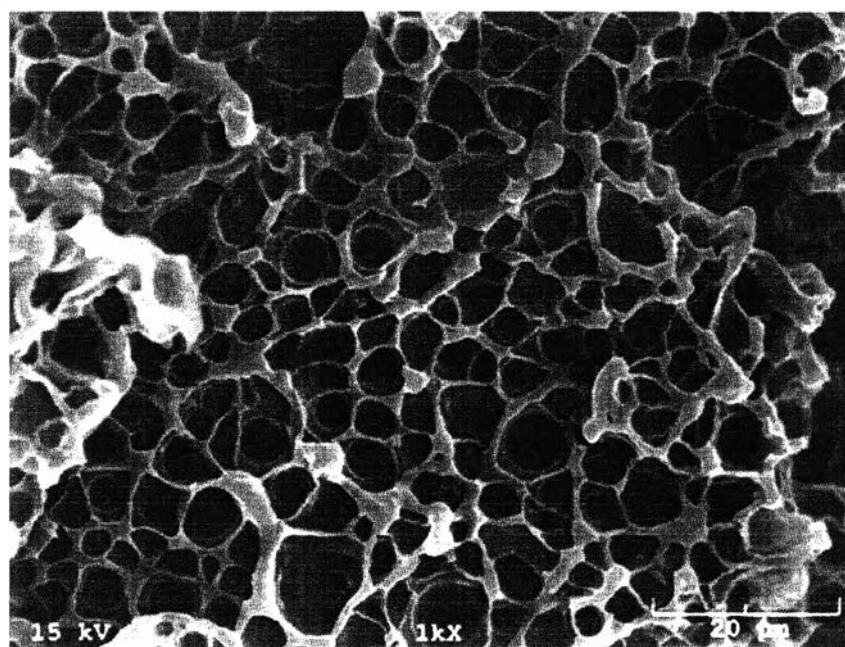
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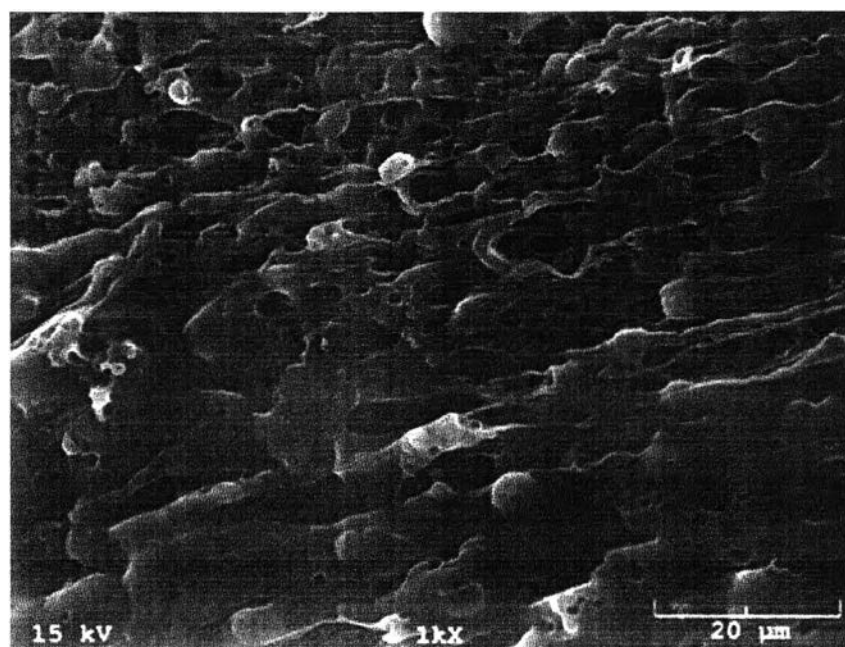
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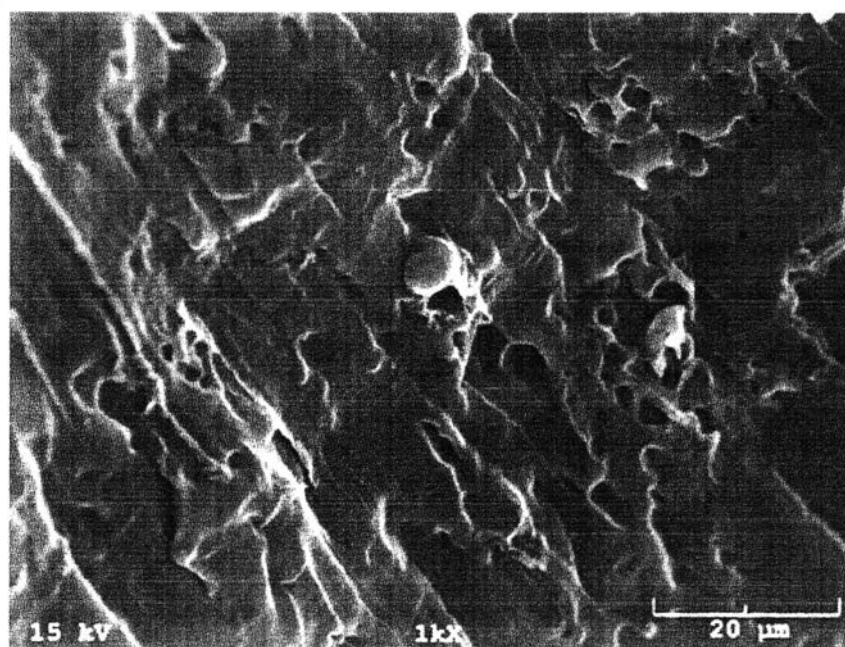
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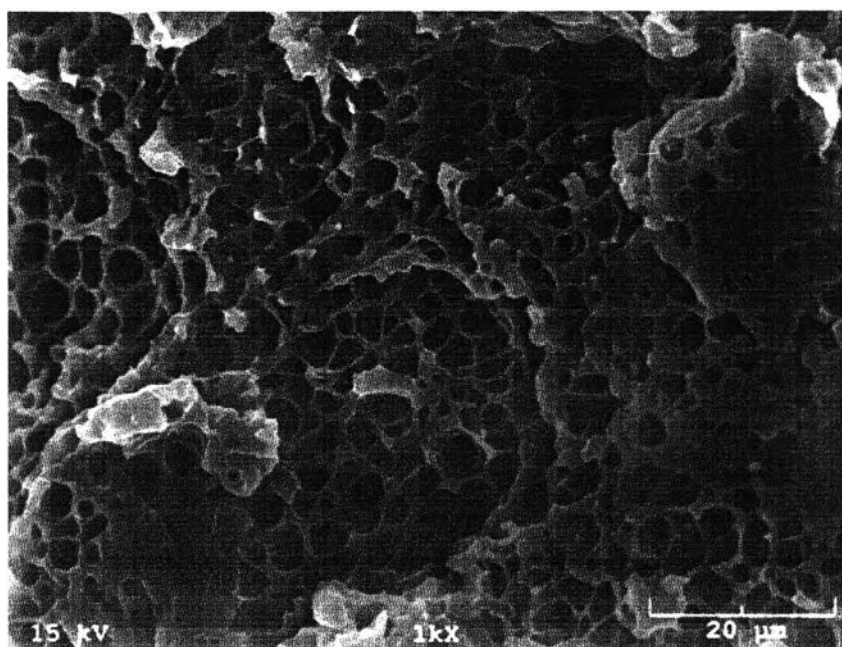
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with 33%Zn-EMAA 1.5 phr



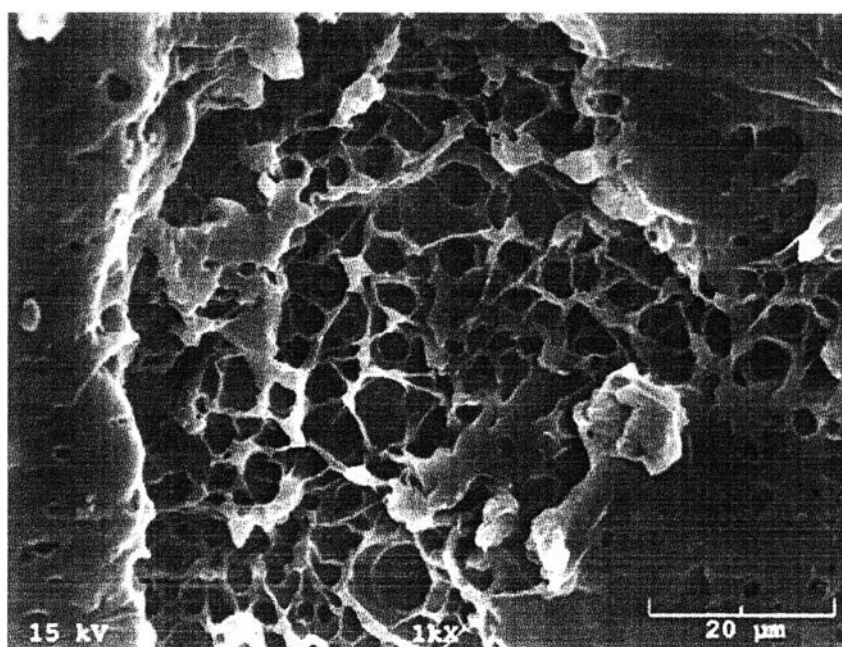
Blended PA6 20: 80 LDPE
with 33%Zn-EMAA 5.0 phr



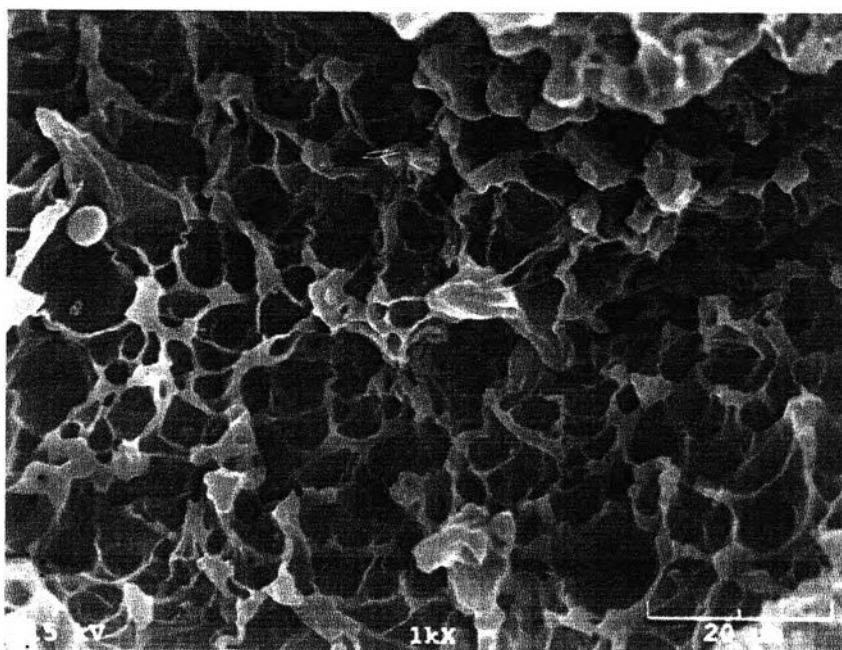
Blended PA6 20: 80 LDPE
with 55%Zn-EMAA 0.5 phr



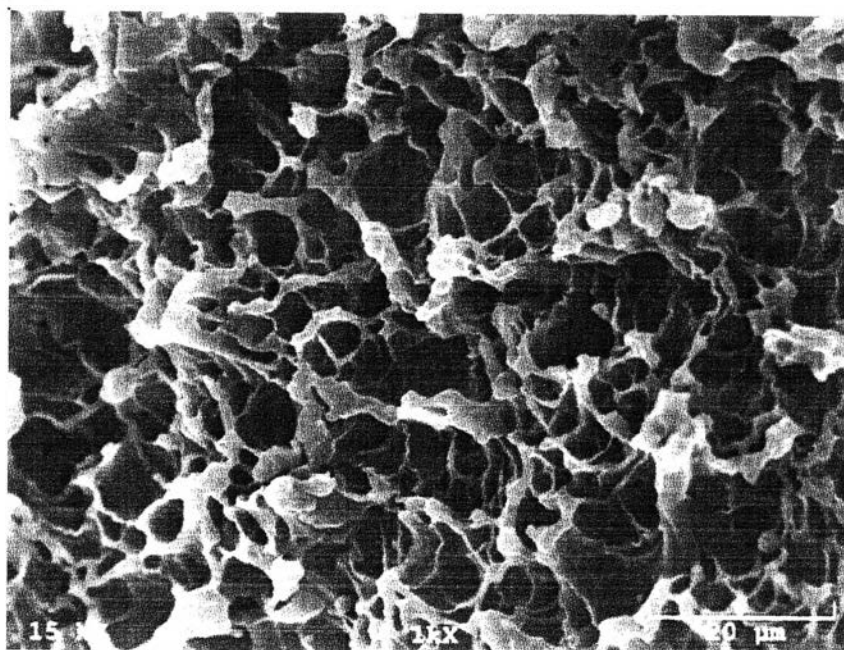
Blended PA6 20: 80 LDPE
with 55%Zn-EMAA 1.5 phr



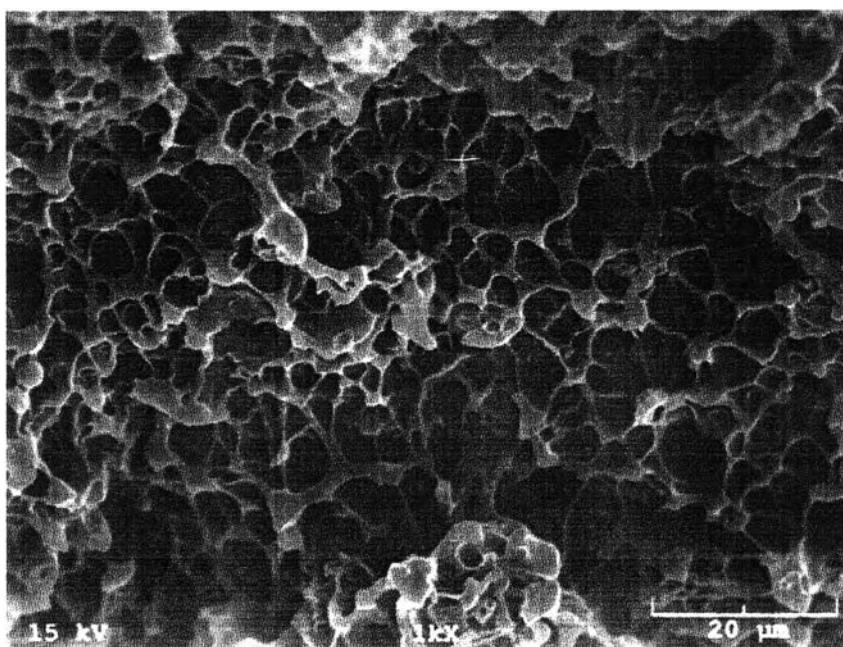
Blended PA6 20: 80 LDPE
with 55%Zn-EMAA 5.0 phr



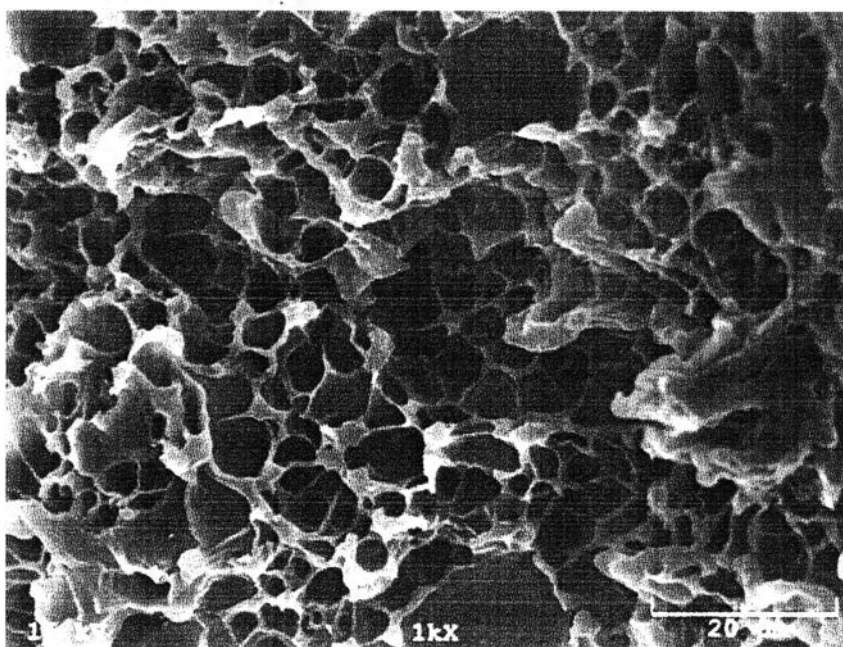
Blended PA6 20: 80 LDPE
with 11%Li-EMAA 0.5 phr



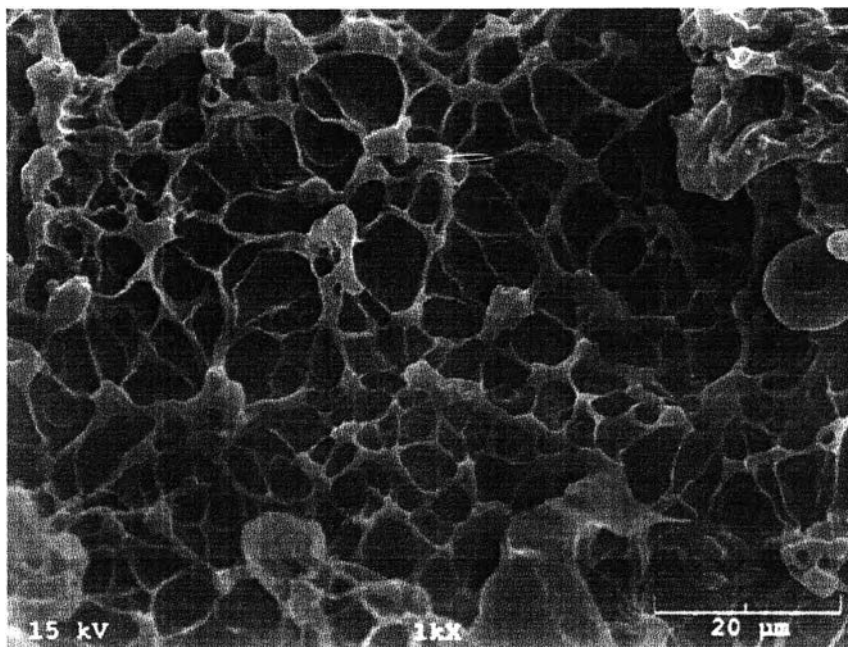
Blended PA6 20: 80 LDPE
with 11%Li-EMAA 1.5 phr



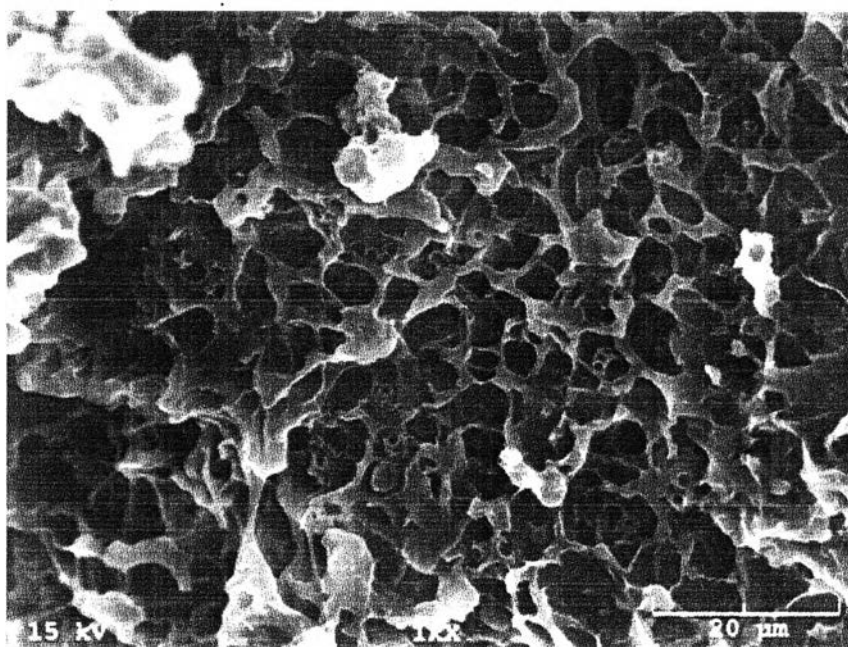
Blended PA6 20: 80 LDPE
with 11%Li-EMAA 5.0 phr



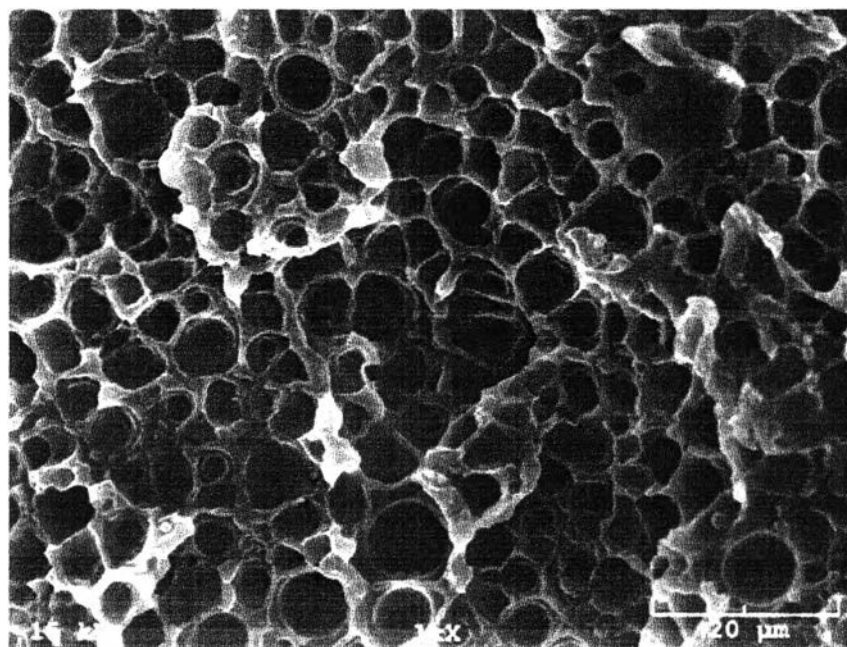
Blended PA6 20: 80 LDPE
with 33%Li-EMAA 0.5 phr



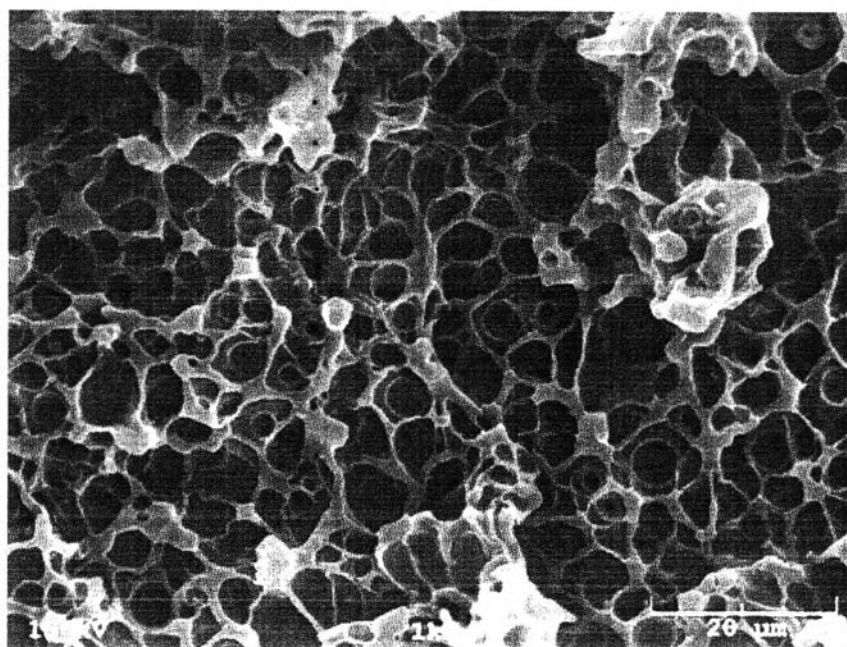
Blended PA6 20: 80 LDPE
with 33%Li-EMAA 1.5 phr



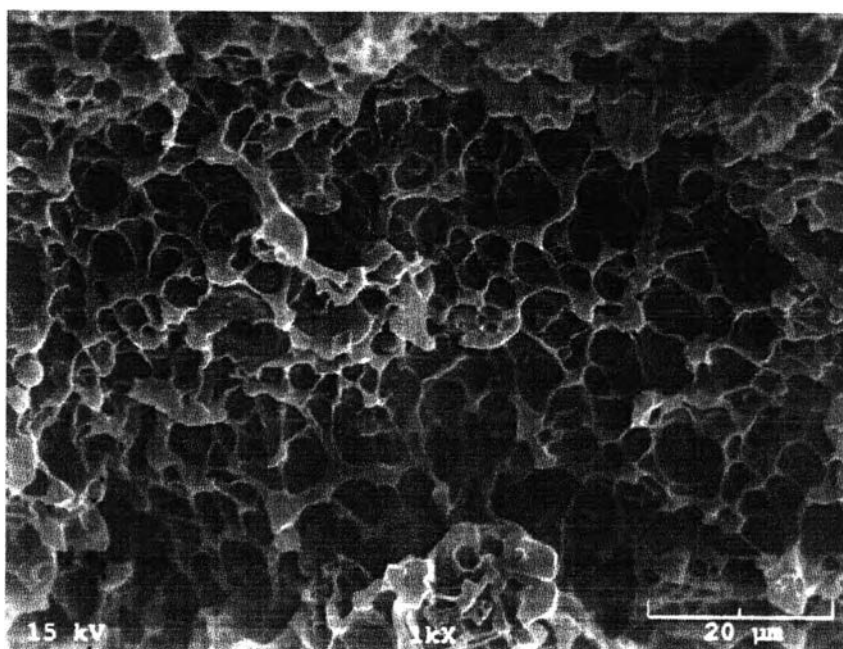
Blended PA6 20: 80 LDPE
with 33%Li-EMAA 5.0 phr



Blended PA6 20: 80 LDPE
with 55%Li-EMAA 0.5 phr

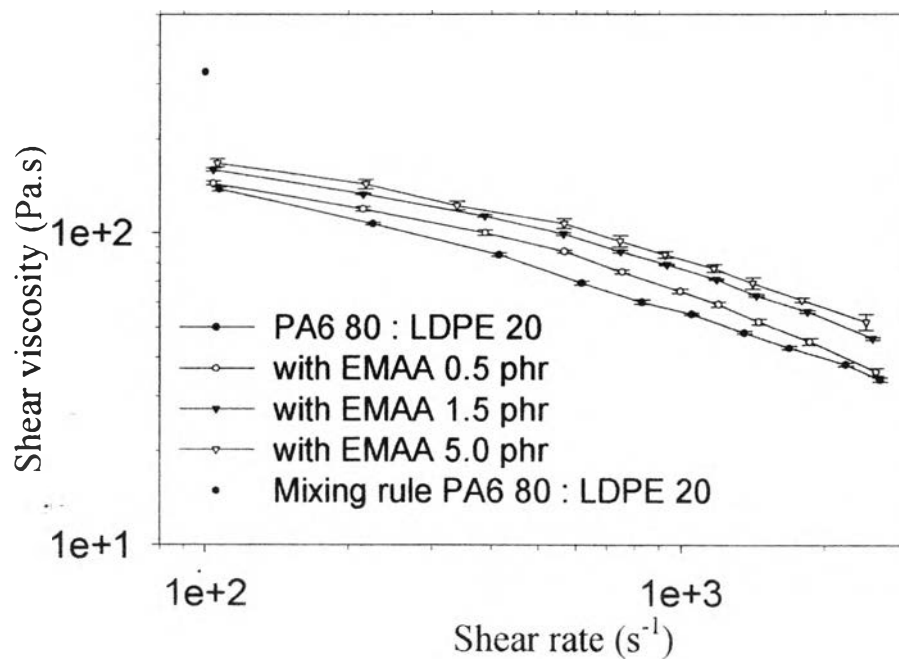


Blended PA6 20: 80 LDPE
with 55%Li-EMAA 1.5 phr

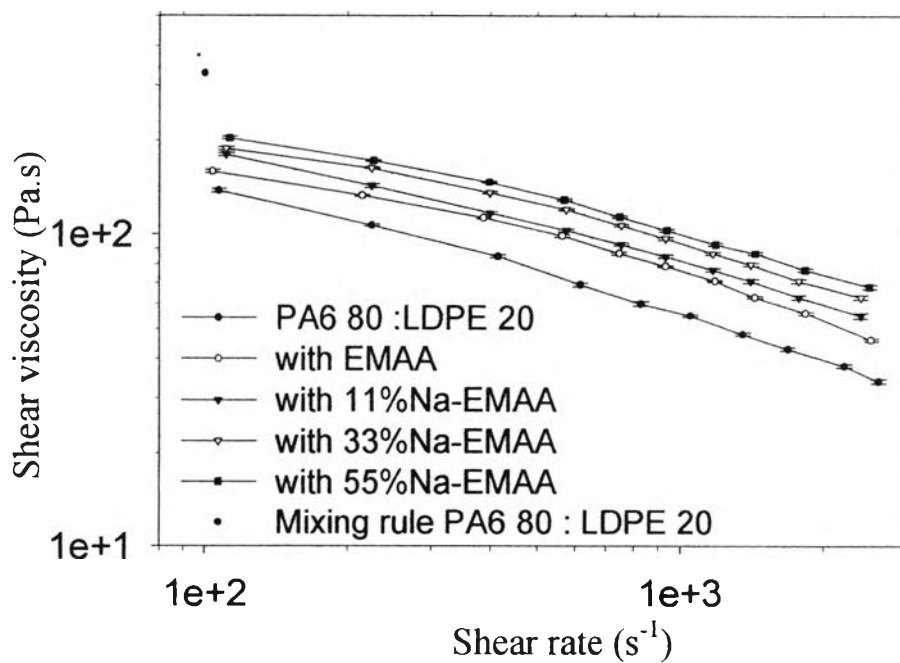


Blended PA6 20: 80 LDPE
with 55%Li-EMAA 5.0 phr

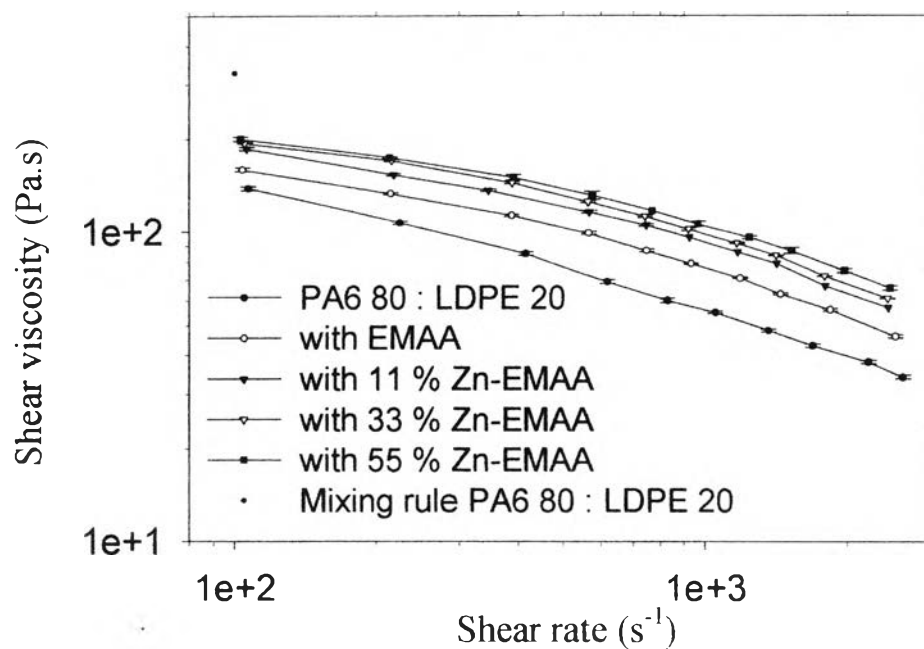
Appendix II : Melt rheology in Chapter V



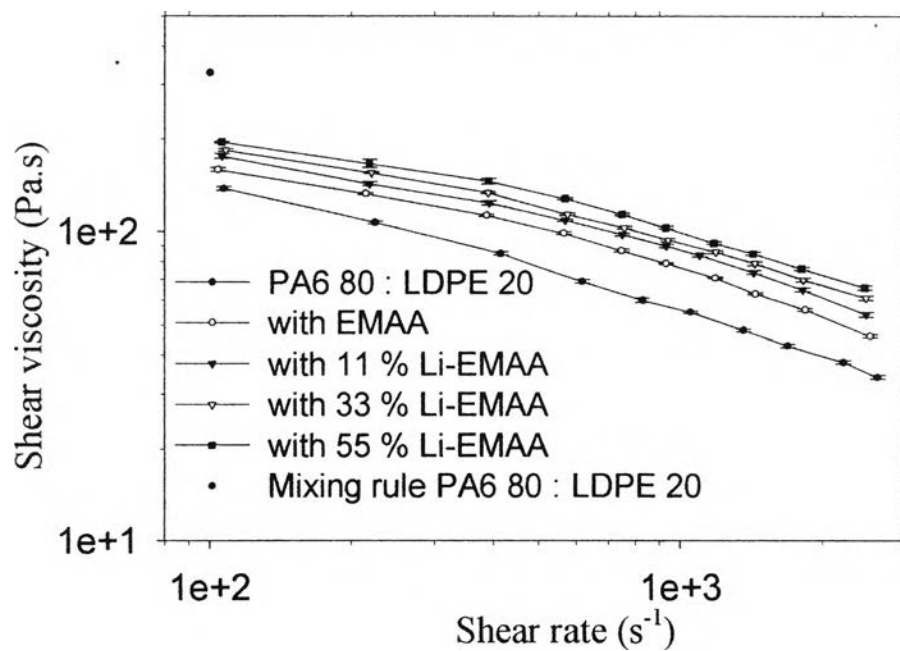
Shear viscosity of PA6 80: LDPE 20 blends with EMAA



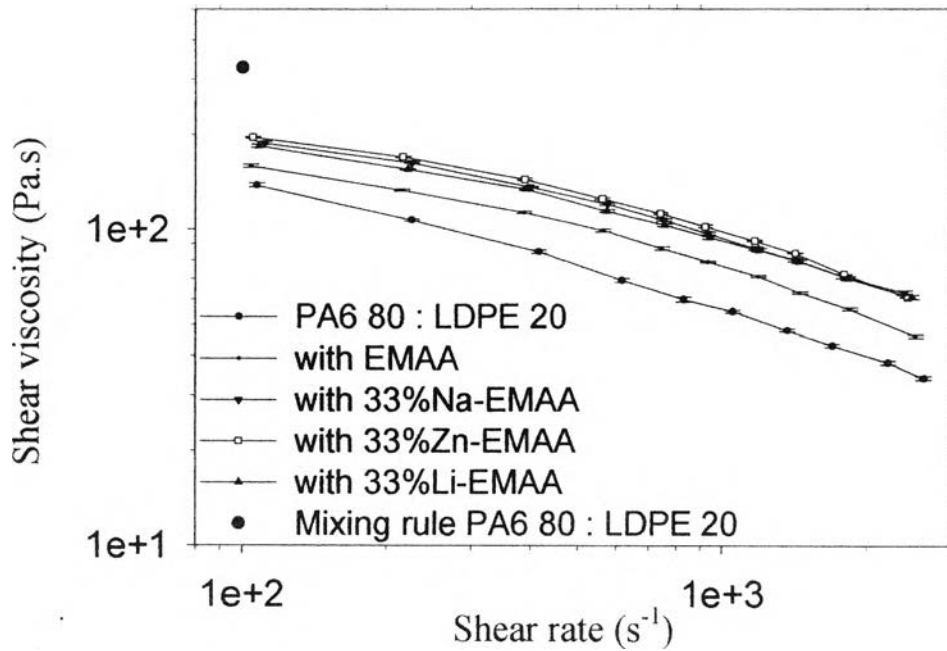
Shear viscosity of PA6 80: LDPE 20 blends with Na-EMAA 1.5 phr



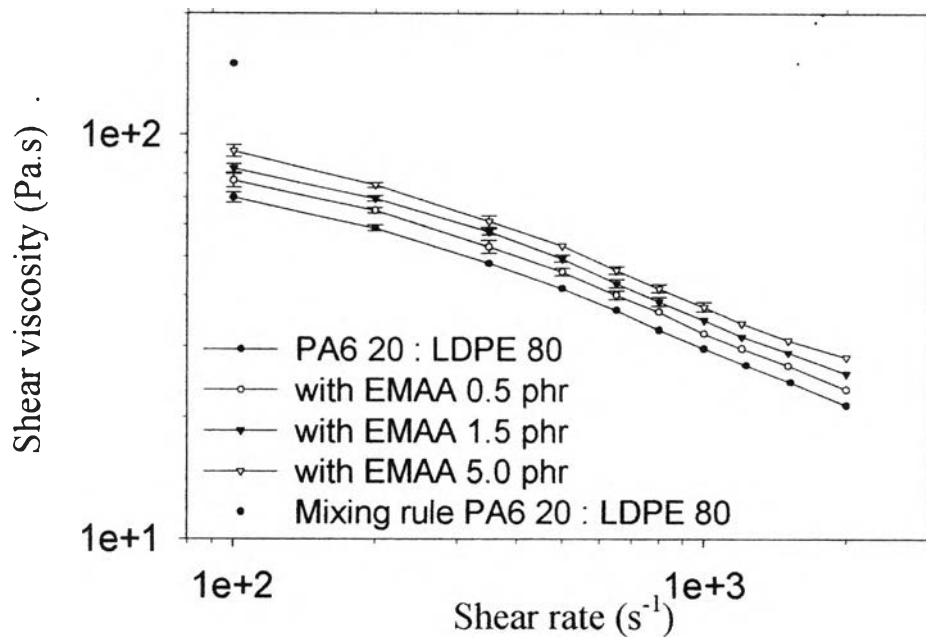
Shear viscosity of PA6 80: LDPE 20 blends with Zn-EMAA 1.5 phr



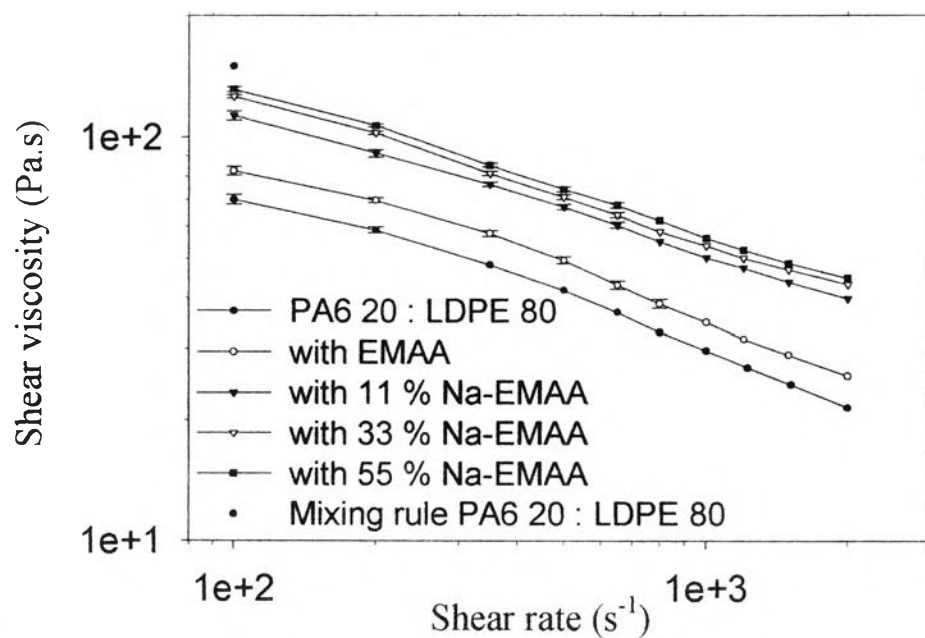
Shear viscosity of PA6 80: LDPE 20 blends with Li-EMAA 1.5 phr



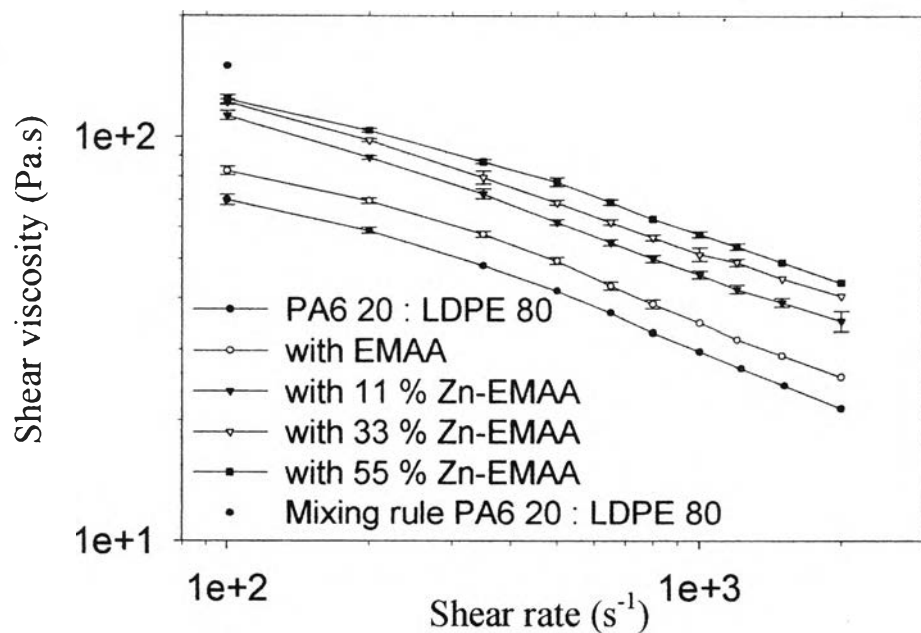
Shear viscosity of PA6 80: 20 LDPE blends with different compatibilizers at 1.5 phr



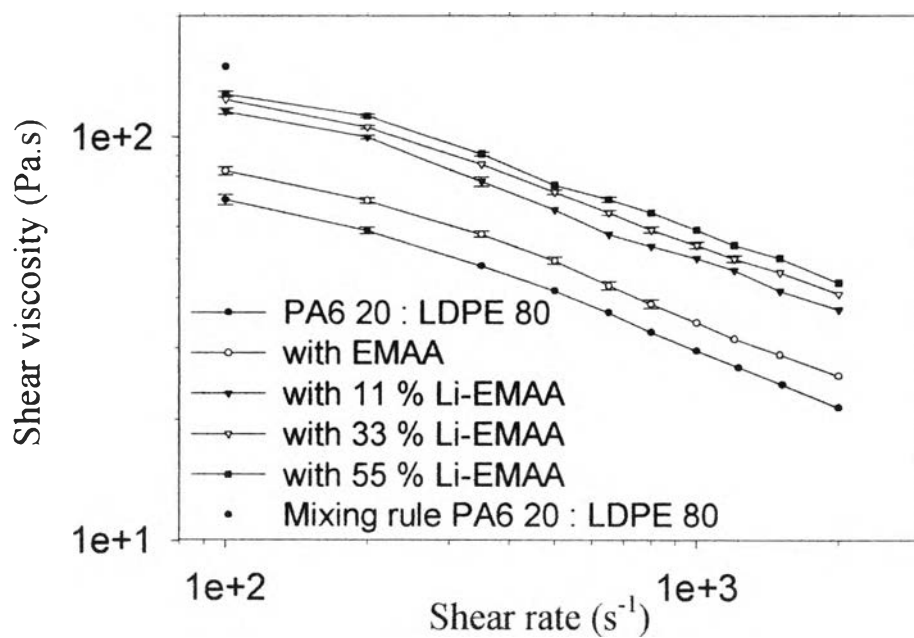
Shear viscosity of PA6 20: LDPE 80 blends with EMAA



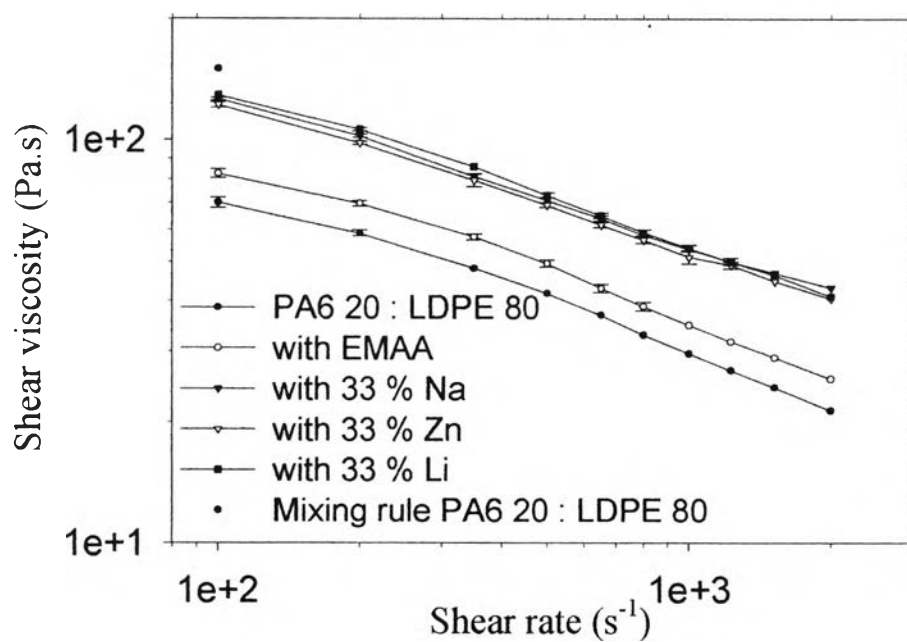
Shear viscosity of PA6 20: LDPE 80 blends with Na-EMAA 1.5 phr



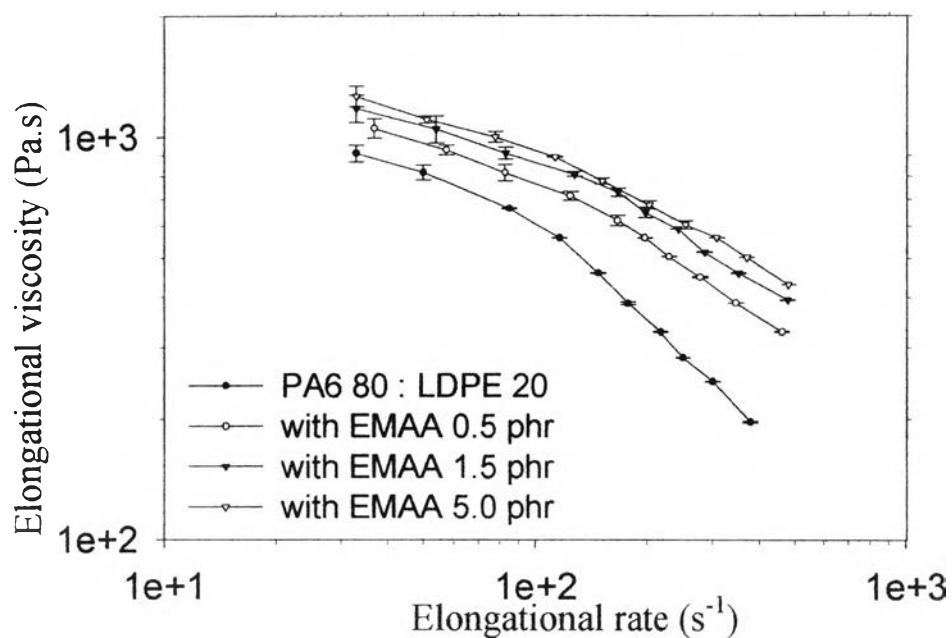
Shear viscosity of PA6 20: LDPE 80 blends with Zn-EMAA 1.5 phr



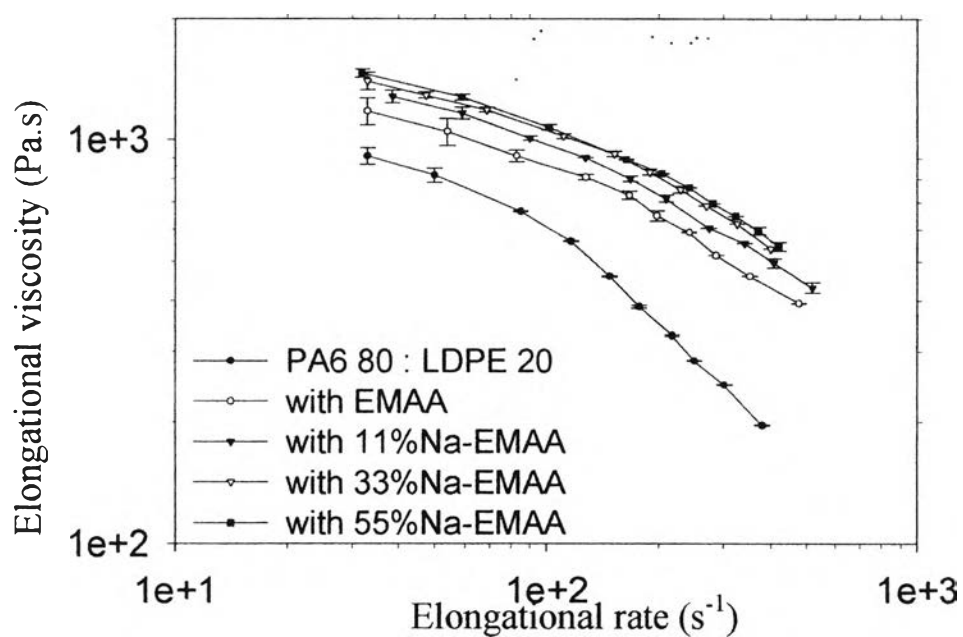
Shear viscosity of PA6 20: LDPE 80 blends with Li-EMAA 1.5 phr



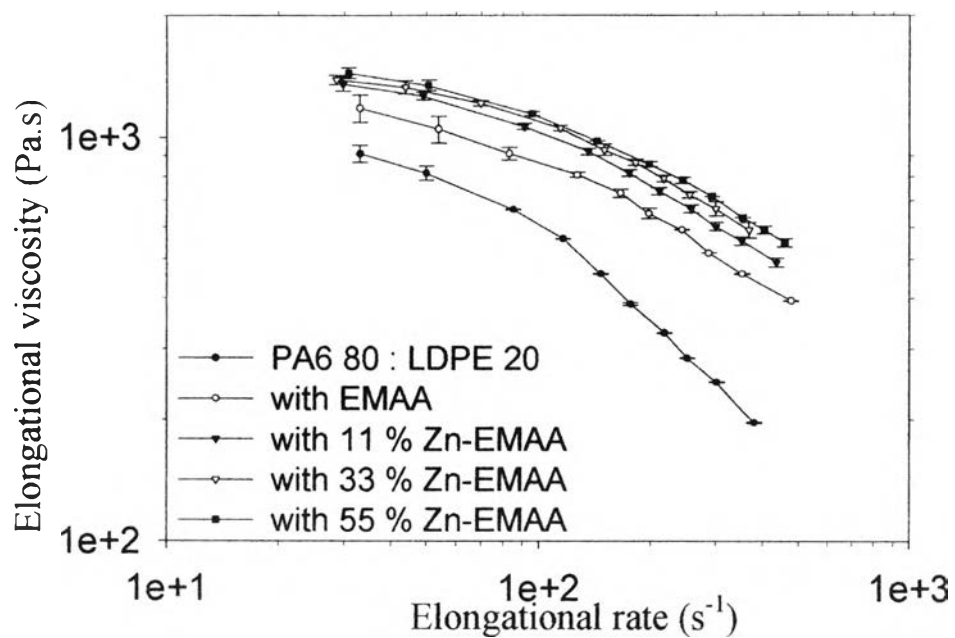
Shear viscosity of PA6 20: 80 blends LDPE with different compatibilizers at 1.5 phr



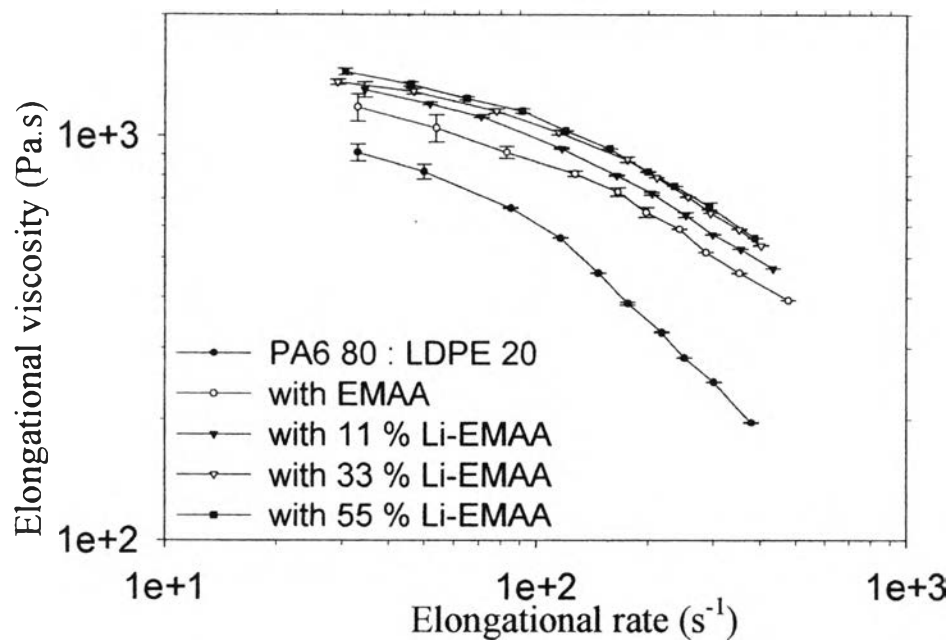
Elongational viscosity of PA6 80: LDPE 20 blends with EMAA



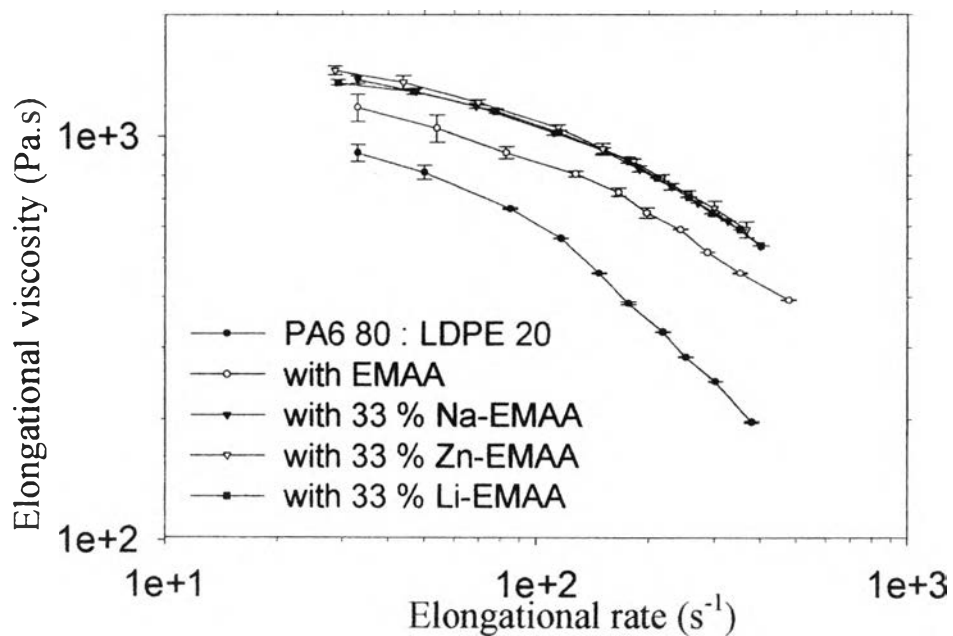
Elongational viscosity of PA6 80: LDPE 20 blends with Na- EMAA 1.5 phr



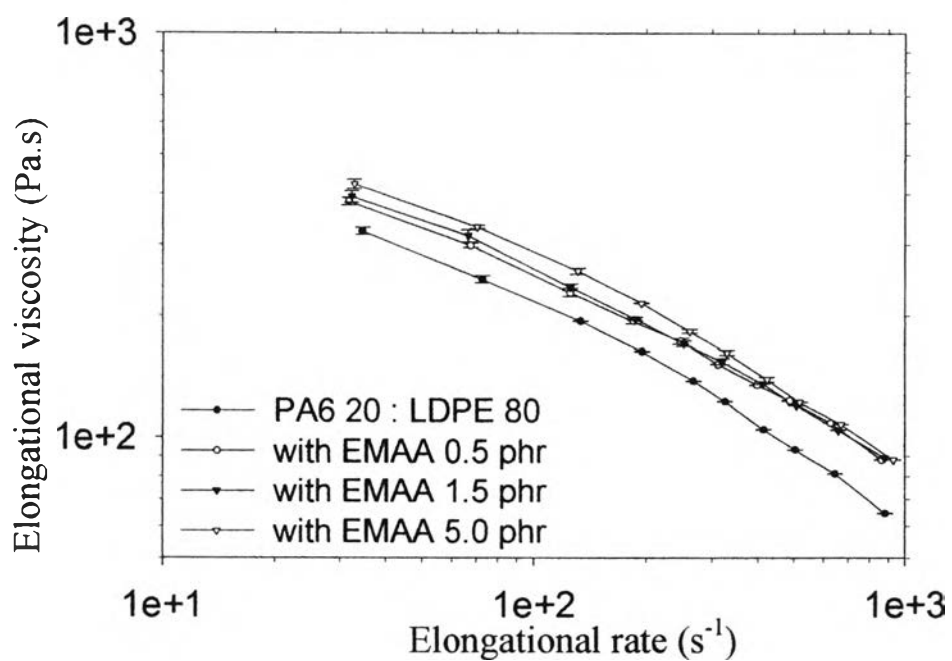
Elongational viscosity of PA6 80: LDPE 20 blends with Zn-EMAA 1.5 phr



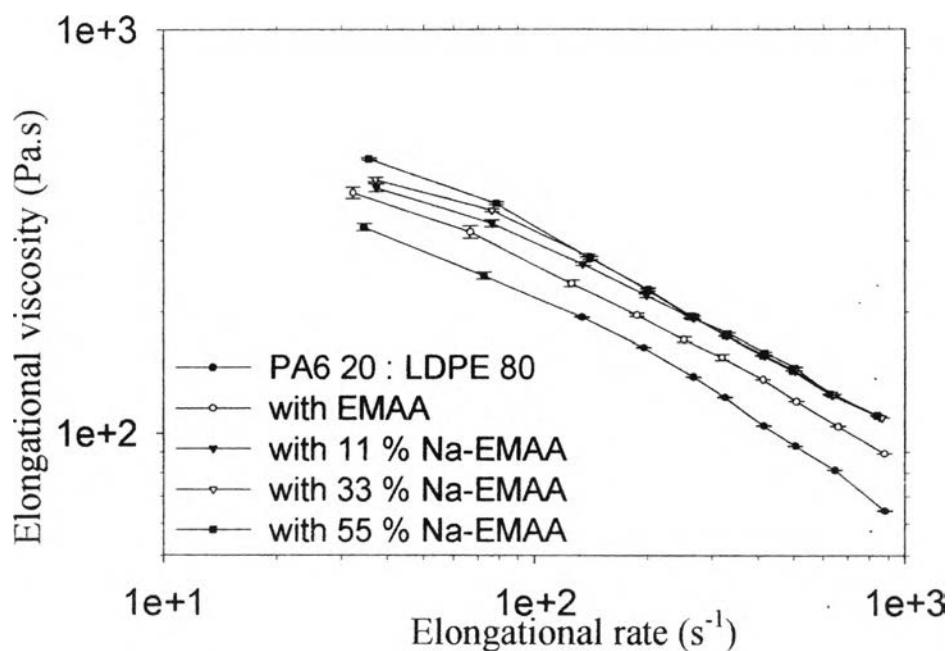
Elongational viscosity of PA6 80: LDPE 20 blends with Li-EMAA 1.5 phr



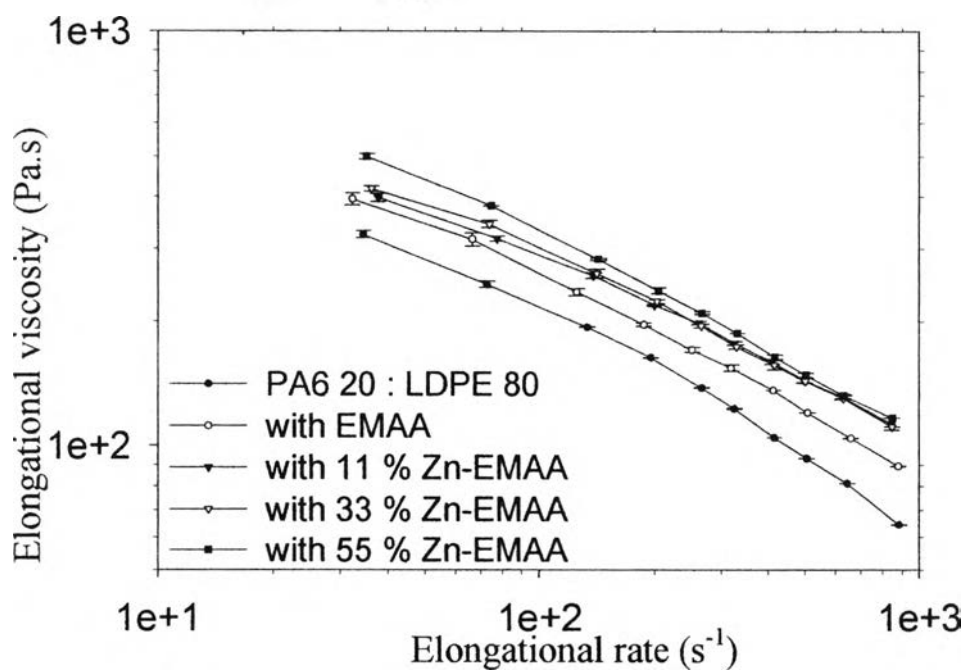
Elongational viscosity of PA6 80: 20 LDPE blends
with different compatibilizers at 1.5 phr



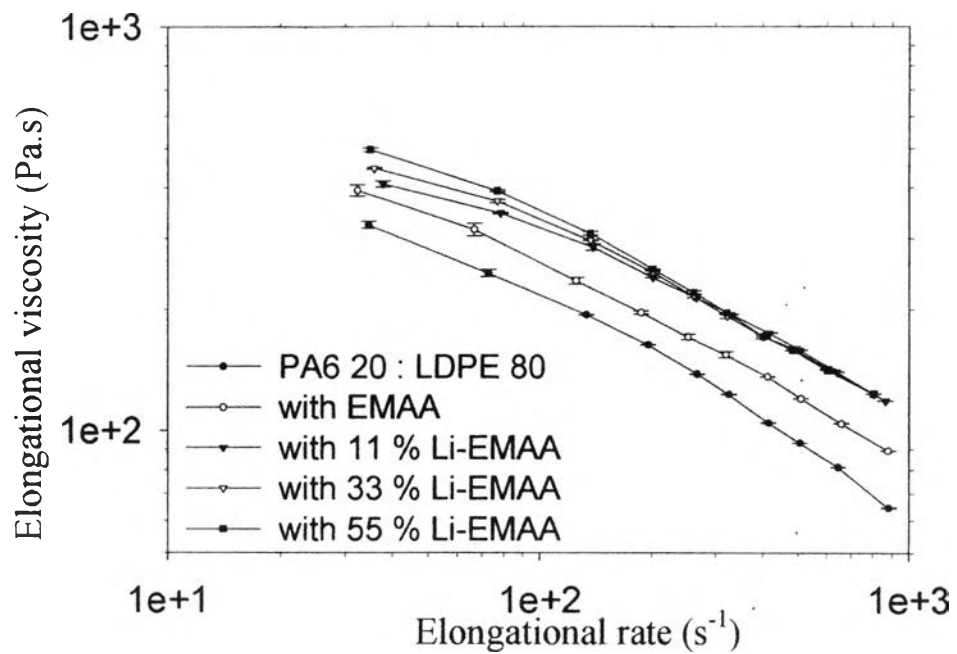
Elongational viscosity of PA6 20: LDPE 80 blends with EMAA



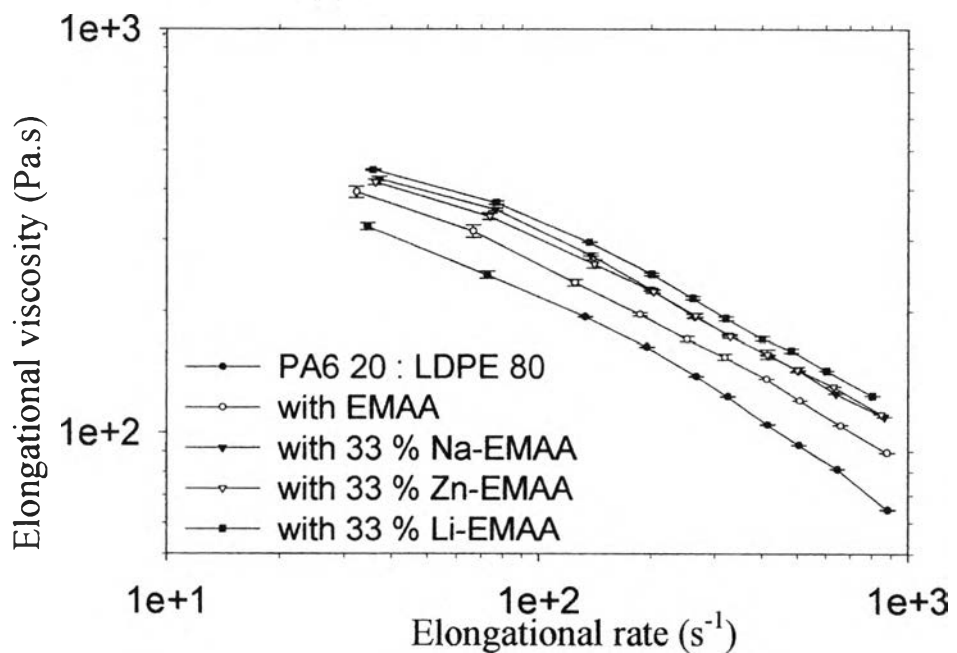
Elongational viscosity of PA6 20: LDPE 80 blends with Na-EMAA 1.5 phr



Elongational viscosity of PA6 20: LDPE 80 blends with Zn-EMAA 1.5 phr

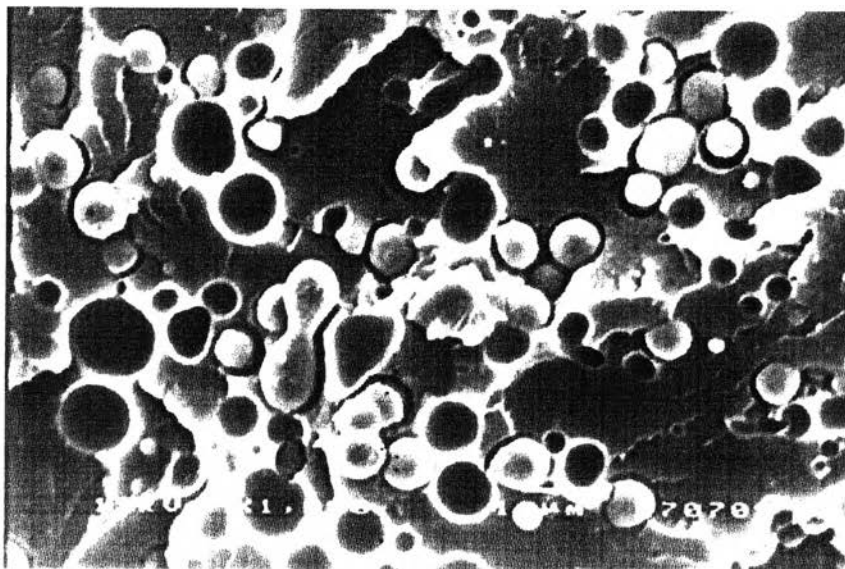


Elongational viscosity of PA6 20: LDPE 80 blends with Li-EMAA 1.5 phr

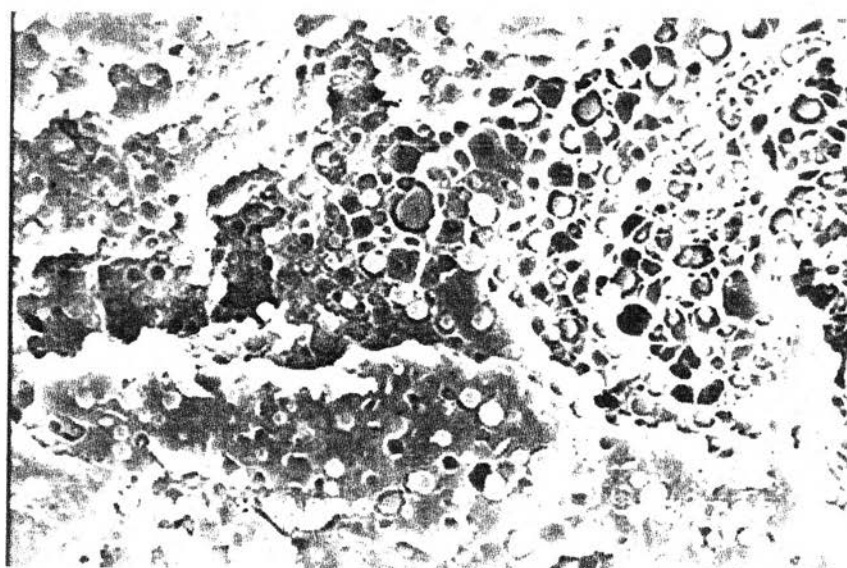


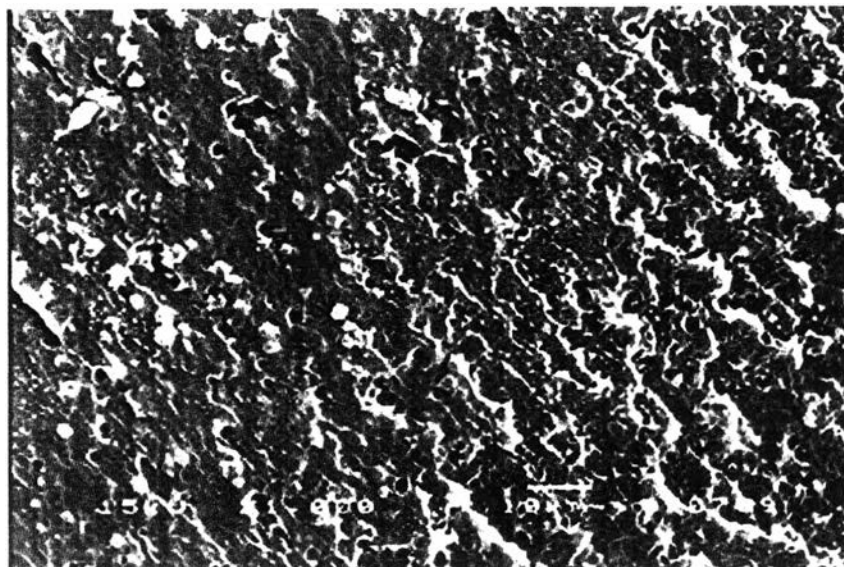
Elongational viscosity of PA6 20: 80 LDPE blends
with different compatibilizers at 1.5 phr

Appendix III : Morphology in CHAPTER VI

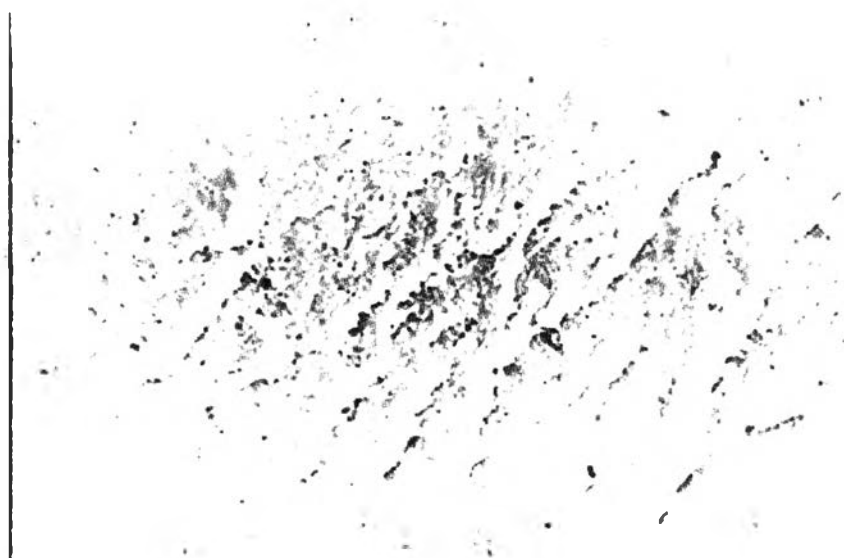


Blended PA6 20: 80 LDPE

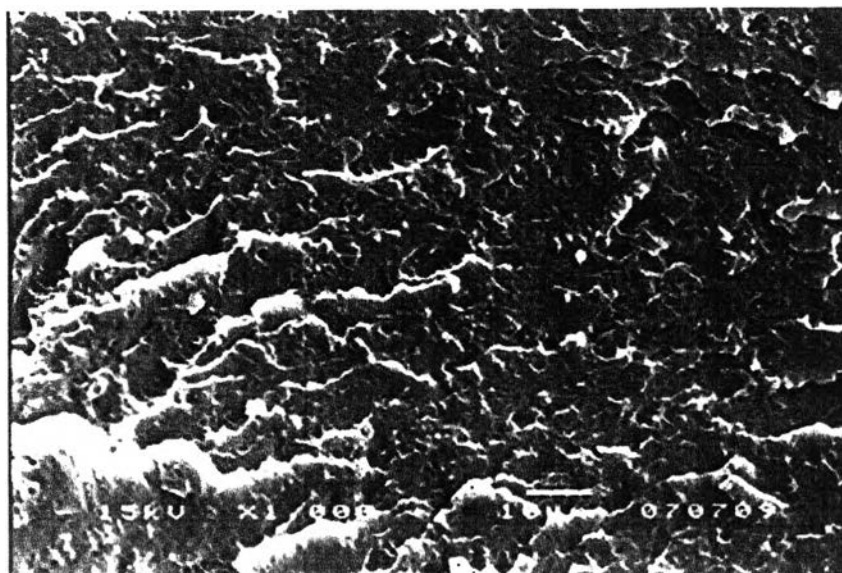
Blended PA6 20: 80 LDPE
with EMAA 0.5 phr



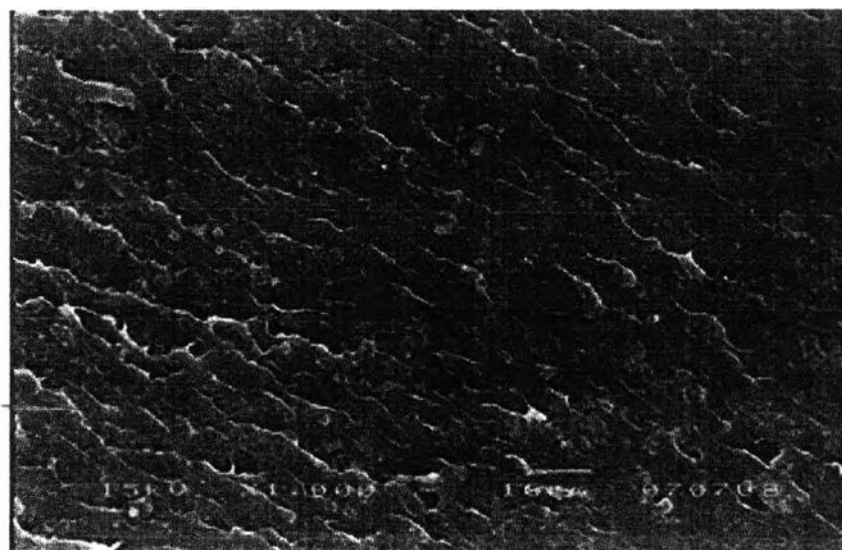
Blended PA6 20: 80 LDPE
with EMAA 1.5 phr



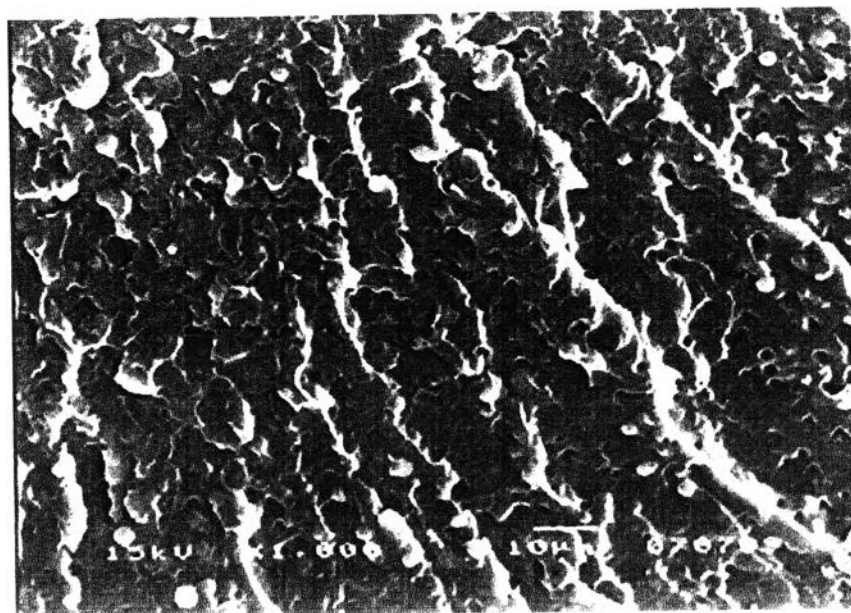
Blended PA6 20: 80 LDPE
with EMAA 5.0 phr



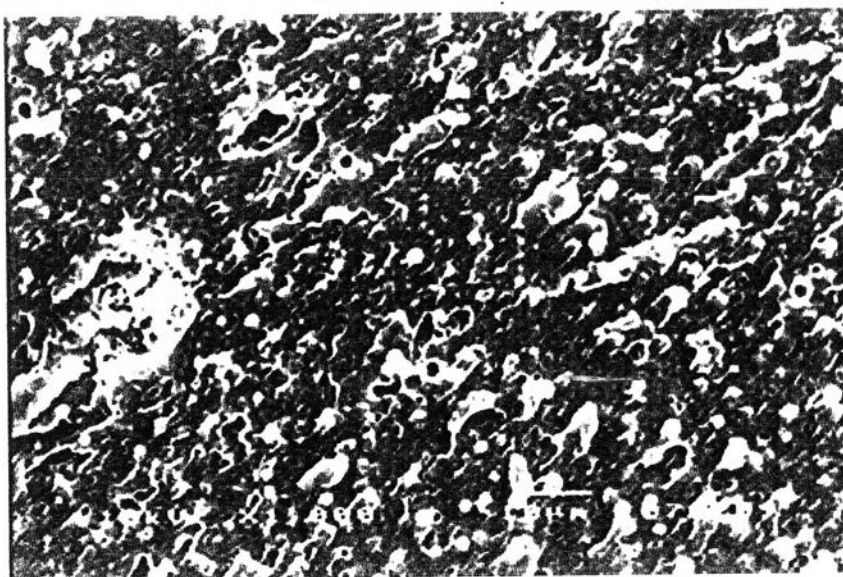
Blended PA6 20: 80 LDPE
with EMAA 10.0 phr



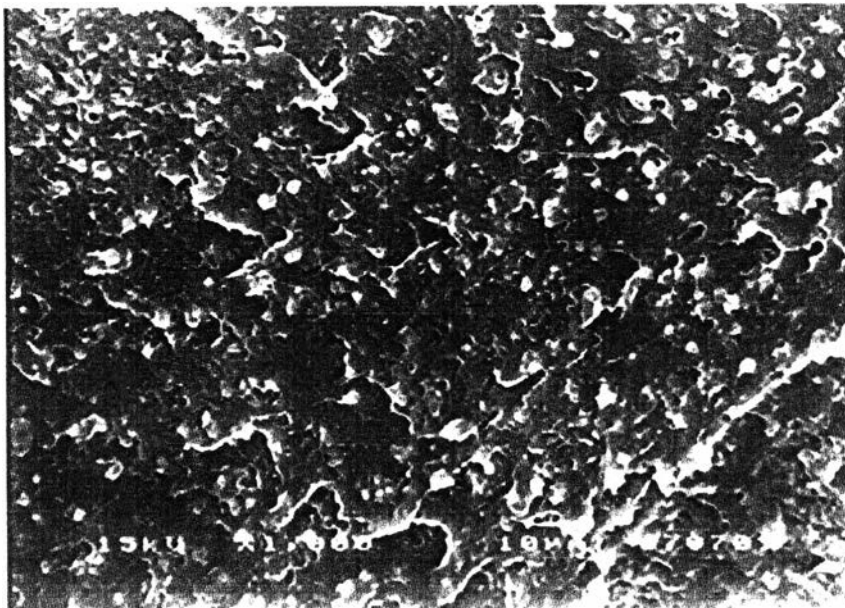
Blended PA6 20: 80 LDPE
with EMAA 20.0 phr



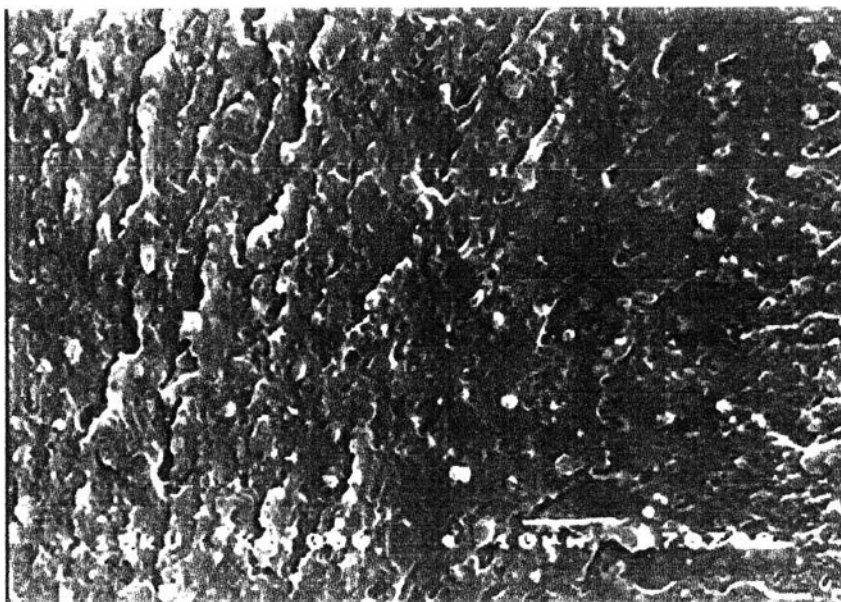
Blended PA6 20: 80 LDPE
with Li-EMAA 0.5 phr



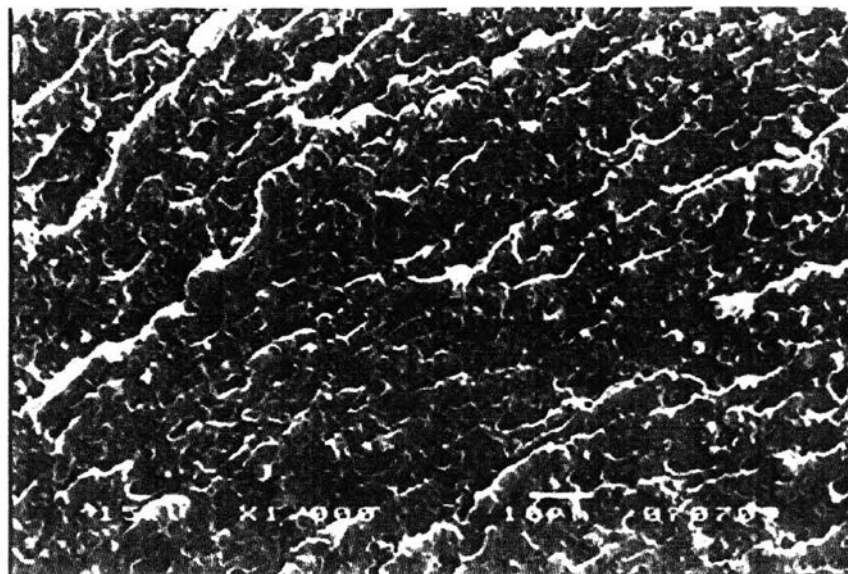
Blended PA6 20: 80 LDPE
with Li-EMAA 1.5 phr



Blended PA6 20: 80 LDPE
with Li-EMAA 5.0 phr



Blended PA6 20: 80 LDPE
with Li-EMAA 10.0 phr



Blended PA6 20: 80 LDPE
with Li-EMAA 20.0 phr

Appendix IV : Dye uptake in CHAPTER VII

Dye uptake of organo-modified PP nanocompostie fiber with different dye types at 15.6 draw ratio

Dye types	Initial dye concentration [g/250ml]	Final dye concentration [g/250ml]	Dye uptake [g/g fiber]
Acid	0.10000	0.09840	0.0016
Basic	0.10000	0.09997	0.0003
Direct	0.10000	0.09999	0.0001

Dye uptake of organo-modified PP nanocompostie fiber with acid dye

Draw ratio	Initial dye concentration [g/250ml]	Final dye concentration [g/250ml]	Dye uptake [g/g fiber]
9.1	0.1000	0.0978	0.0022
15.7	0.1000	0.0984	0.0016
21.8	0.1000	0.0982	0.0018
28.3	0.1000	0.0974	0.0026

Dye uptake = Initial dye concentration – Final dye concentration

CURRICULUM VITAE

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2002-2004 Bachelor Degree of Science

Publications:

1. Sinthavathavorn, W., Nithitanakul, M, Magaraphan, R., and Grady B.P. (2008) Blends of Polyamide 6 with Low-Density Polyethylene Compatibilized with Ethylene–Methacrylic Acid Based Copolymer Ionomers: Effect of Neutralizing Cations. Journal of Applied Polymer Science, 107, 3090-3098.
2. Sinthavathavorn, W., Nithitanakul, M., Grady B.P., and Magaraphan, R. (2008) Melt Rheology of Low-Density Polyethylene/Polyamide 6 Using Ionomer as a Compatibilizer. Polymer Bulletin, in press
3. Sinthavathavorn, W., Nithitanakul, M., Grady B.P., and Magaraphan, R. (2008) Melt Rheology and Die swell of Blended Low-Density Polyethylene/Polyamide 6 by Using Lithium Ionomer as a compatibilizer. Polymer Bulletin, Submit

Proceedings:

1. Sinthavathavorn, W., Aimampaiwong, N., Muksing, N., Nithitanakul, M., Manuspiya, H., and Magaraphan, R. (2008, Jan 30 – Feb 1) Effect of draw ratio on mechanical and dye ability of polypropylene-organoclay nanocomposite fiber. Proceedings of the PACCON 2008, Bangkok, Thailand.
2. Muksing, N., Aimampaiwong, N., Sinthavathavorn, W., Nithitanakul, M., Manuspiya, H., and Magaraphan, R. (2008, Jan 30 – Feb 1) Effect of Compatibilizers on Mechanical and Dyeability of PP/Organoclay Nanocomposite Fibers. Proceedings of the PACCON 2008, Bangkok, Thailand. [Submit]



Presentations:

1. Sinthavathavorn, W., Nithitanakul, M., Grady B.P., and Magaraphan, R. (2006, June 1-4) Blends of Polyamide 6 with Low-Density Polyethylene Compatibilized with Ionomers Paper presented at International Plastic and Rubber Technology Trade Exhibition and Conference INTERPLAS 15th, Bangkok, Thailand
2. Sinthavathavorn, W., Nithitanakul, M., Grady B.P., and Magaraphan, R. (2007, June 21-24) Blends of Polyamide 6 with Low-Density Polyethylene Compatibilized with Ethylene–Methacrylic Acid Based Copolymer Ionomers Paper presented at International Plastic and Rubber Technology Trade Exhibition and Conference INTERPLAS 16th, Bangkok, Thailand
3. Sinthavathavorn, W., Nithitanakul, M., Grady B.P., and Magaraphan, R. (2008, June 15-19) Use of Lithium-Neutralized Ethylene/Methacrylic Acid Copolymer Ionomers as Blend Compatibilizers for Nylon 6 and Low-Density Polyethylene Paper presented at Polymer Processing Society 24th (PPS2008), Salerano, Italy