



Technical Data Sheet

MATERIAL:	Polyacrylonitrile																				
CATALOG NUMBER:	134																				
CAS NUMBER:	25014-41-9																				
DESCRIPTION:	Homopolymer of acrylonitrile																				
FORMULA:	$(C_3H_3N)_x$																				
TYPICAL PROPERTIES:	<table><tr><td>Appearance:</td><td>Powder</td></tr><tr><td>Approx Mw:</td><td>150,000</td></tr><tr><td>Refractive index:</td><td>n_D^{25} 1.5187</td></tr><tr><td>Density:</td><td>1.184</td></tr><tr><td>Glass transition temp:</td><td>125°C</td></tr><tr><td>Melting point:</td><td>317°C</td></tr><tr><td>Relative viscosity:</td><td>1.45</td></tr><tr><td>Solubility parameter:</td><td>15.4</td></tr><tr><td>Thermal stability:</td><td>Excellent < 150°C Degrades >150°C</td></tr><tr><td>Solubility:</td><td>Adiponitrile, DMAC, DMF, DMSO</td></tr></table>	Appearance:	Powder	Approx Mw:	150,000	Refractive index:	n_D^{25} 1.5187	Density:	1.184	Glass transition temp:	125°C	Melting point:	317°C	Relative viscosity:	1.45	Solubility parameter:	15.4	Thermal stability:	Excellent < 150°C Degrades >150°C	Solubility:	Adiponitrile, DMAC, DMF, DMSO
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GENERAL INFORMATION:	Can be cast from solvent to produce a tough, durable, dimensionally stable plastic resistant to acids, brine, aliphatic hydrocarbons, ultraviolet light, etc.																				
STRUCTURE:																					

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