Micropol Isoplas P501 Crosslinkable Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Information provided by Micropol Limited

Order this product through the following link:
http://www.lookpolymers.com/polymer_Micropol-Isoplas-P501-Crosslinkable-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/inÂ³	ASTM D792
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 190 Â°C	3.0 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	26.0 MPa	3770 psi	ASTM D638
	6.50 MPa @Temperature 100 Â°C	943 psi @Temperature 212 Â°F	ASTM D638
Elongation at Break	200 %	200 %	
Modulus of Elasticity	1.20 GPa	174 ksi	0Â°C; ASTM D638
	1.00 GPa @Temperature 20.0 Â°C	145 ksi @Temperature 68.0 Â°F	
	1.40 GPa @Temperature -40.0 Â°C	203 ksi @Temperature -40.0 Â°F	ASTM D638
Izod Impact, Notched	1.40 J/cm	2.62 ft-lb/in	BS 2782.306A
	1.40 J/cm @Temperature -20.0 Â°C	2.62 ft-lb/in @Temperature -4.00 Â°F	BS 2782.306A

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 Âµm/m-Â°C @Temperature -20.0 Â°C	50.0 Âµin/in-Â°F @Temperature -4.00 Â°F	ASTM D696
	140 Âµm/m-Â°C	77.8 Âµin/in-Â°F	ASTM D696

Thermal Properties	Metric	English	Comments
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	500 Âµm/m-Â°C @Temperature 100 Â°C	278 Âµin/in-Â°F @Temperature 212 Â°F	ASTM D696
Specific Heat Capacity	2.10 J/g-Â°C	0.502 BTU/lb-Â°F	
Thermal Conductivity	0.460 W/m-K	3.19 BTU-in/hr-ftÂ²-Â°F	
Vicat Softening Point	124 Â°C	255 Â°F	ASTM D1525

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