

Micropol Isoplas P651 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-P651-Crosslinkable-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ASTM D792
Melt Flow	1.5 g/10 min @Load 2.16 kg, Temperature 190 Å°C	1.5 g/10 min @Load 4.76 lb, Temperature 374 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	31.0 MPa	4500 psi	ASTM D638
	9.00 MPa @Temperature 100 Å°C	1310 psi @Temperature 212 Å°F	ASTM D638
Elongation at Break	70 %	70 %	
Modulus of Elasticity	1.50 GPa	218 ksi	0Å°C; ASTM D638
	1.80 GPa @Temperature 20.0 Å°C	261 ksi @Temperature 68.0 Å°F	
	2.00 GPa @Temperature -40.0 Å°C	290 ksi @Temperature -40.0 Å°F	ASTM D638
Izod Impact, Notched	2.50 J/cm	4.68 ft-lb/in	BS 2782.306A
	2.50 J/cm @Temperature -20.0 Å°C	4.68 ft-lb/in @Temperature -4.00 Å°F	BS 2782.306A

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

Thermal Properties	@Temperature 20.0 Metric °C	@Temperature 68.0 English °F	Comments
	500 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	278 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature 100 $\text{Å}^\circ\text{C}$	@Temperature 212 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	2.10 J/g- $\text{Å}^\circ\text{C}$	0.502 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.460 W/m-K	3.19 BTU-in/hr-ft Å^2 - $\text{Å}^\circ\text{F}$	
Vicat Softening Point	130 $\text{Å}^\circ\text{C}$	266 $\text{Å}^\circ\text{F}$	ASTM D1525

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