

IRPC Polimaxx Polene 121PC Styrene Acrylonitrile

Category : Polymer , Thermoplastic , SAN Polymer

Material Notes:

APPLICATIONS: INJECTION MOLDING, HOUSEHOLD PRODUCTS : SANITARY WARE, AUTOPART APPLICATION : LAMP ELECTRICAL

APPLIANCES : ELECTRICAL FAN

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http://www.lookpolymers.com/polymer_IRPC-Polimaxx-Polene-121PC-Styrene-Acrylonitrile.php

Physical Properties	Metric	English	Comments
Melt Flow	2.8 g/10 min @Load 5.00 kg, Temperature 200 Å°C	2.8 g/10 min @Load 11.0 lb, Temperature 392 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	93 @Thickness 6.35 mm, Temperature 23.0 Å°C	93 @Thickness 0.250 in, Temperature 73.4 Å°F	ASTM D648
Tensile Strength, Yield	70.6 MPa @Temperature 23.0 Å°C	10200 psi @Temperature 73.4 Å°F	ASTM D638
Flexural Yield Strength	118 MPa @Temperature 23.0 Å°C	17100 psi @Temperature 73.4 Å°F	ASTM D790
Flexural Modulus	3.73 GPa @Temperature 23.0 Å°C	540 ksi @Temperature 73.4 Å°F	ASTM D790
Izod Impact, Notched	0.216 J/cm @Thickness 6.35 mm, Temperature 23.0 Å°C	0.405 ft-lb/in @Thickness 0.250 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	81.0 Å°C @Thickness 6.35 mm	178 Å°F @Thickness 0.250 in	ASTM D648
Vicat Softening Point	108 Å°C @Load 1.00 kg, Thickness 3.17 mm	226 Å°F @Load 2.20 lb, Thickness 0.125 in	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	210 - 260 Â°C	410 - 500 Â°F	
Drying Temperature	80.0 - 85.0 Â°C @Time 7200 - 10800 sec	176 - 185 Â°F @Time 2.00 - 3.00 hour	

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