

IRPC Polimaxx Polene HI830 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

APPLICATIONS: EXTRUSION APPLICATION, VACUUM SHEET : FOOD PACKAGING ELECTRICAL APPLIANCES, HOUSEHOLD PRODUCT, TOYS, SANITARY, etc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_IRPC-Polimaxx-Polene-HI830-Polystyrene.php

Physical Properties	Metric	English	Comments
Melt Flow	3.0 g/10 min	3.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 Å°C	@Load 11.0 lb, Temperature 392 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	82	82	ASTM D785
	@Thickness 6.35 mm, Temperature 23.0 Å°C	@Thickness 0.250 in, Temperature 73.4 Å°F	
Tensile Strength, Yield	21.4 MPa	3100 psi	ASTM D638
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Flexural Yield Strength	41.4 MPa	6000 psi	ASTM D790
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Notched	0.120 J/cm	0.225 ft-lb/in	ASTM D256
	@Thickness 6.35 mm, Temperature 23.0 Å°C	@Thickness 0.250 in, Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Å°C	194 Å°F	ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Vicat Softening Point	96.0 Å°C	205 Å°F	ASTM D1525
	@Load 1.00 kg, Thickness 3.17 mm	@Load 2.20 lb, Thickness 0.125 in	
Flammability, UL94	HB	HB	

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	190 - 230 Å°C	374 - 446 Å°F	extrusion
Drying Temperature	80.0 - 85.0 Å°C @Time 7200 - 10800 sec	176 - 185 Å°F @Time 2.00 - 3.00 hour	

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