

Chi Mei Polyrex® PH-88 Polystyrene - High Impact

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

High impact

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Polyrex-PH-88-Polystyrene-High-Impact.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Melt Flow	5.0 g/10 min @Load 10.0 kg, Temperature 220 °C	5.0 g/10 min @Load 22.0 lb, Temperature 428 °F	Melt Volume Rate (ml/10 min); ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	84.0 MPa	12200 psi	H358/30; ISO 2039-1
Tensile Strength at Break	22.0 MPa	3190 psi	50 mm/min; ISO 527
Tensile Strength, Yield	27.0 MPa	3920 psi	50 mm/min; ISO 527
Elongation at Break	56 %	56 %	50 mm/min; ISO 527
Flexural Strength	35.0 MPa	5080 psi	2 mm/min; ISO 178
Flexural Modulus	1.20 GPa	174 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	ISO 180/1C
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	1.10 J/cm ²	5.24 ft-lb/in ²	ISO 179
Impact	12.0	12.0	Impact Flexural Test Notched (KJ/m ²)
	100	100	Impact Flexural Test Unnotched (KJ/m ²)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	74.0 °C	165 °F	unannealed; ISO 75
	89.0 °C	192 °F	annealed; ISO 75
Vicat Softening Point	87.0 °C	189 °F	50°C/hr; ISO 306

Thermal Properties	@Load 5.00 kg Metric	@Load 11.0 lb English	Comments
	89.0 °C	192 °F	120°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	96.0 °C	205 °F	50°C/hr; ISO 306
	@Load 1.00 kg	@Load 2.20 lb	
	98.0 °C	208 °F	120°C/hr; ISO 306
	@Load 1.00 kg	@Load 2.20 lb	
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.59 mm	@Thickness 0.0625 in	

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