

Chi Mei Polyrex® PH-60 Polystyrene - High Impact

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

Material Notes:

Medium impact

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Polyrex-PH-60-Polystyrene-High-Impact.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Melt Flow	5.5 g/10 min @Load 10.0 kg, Temperature 220 °C	5.5 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	90.0 MPa	13100 psi	H358/30; ISO 2039-1
Tensile Strength at Break	27.0 MPa	3920 psi	50 mm/min; ISO 527
Tensile Strength, Yield	27.0 MPa	3920 psi	50 mm/min; ISO 527
Elongation at Break	64 %	64 %	50 mm/min; ISO 527
Flexural Strength	40.0 MPa	5800 psi	2 mm/min; ISO 178
Flexural Modulus	1.60 GPa	232 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 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	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179
Impact	8.00	8.00	Impact Flexural Test Notched (KJ/m ²)
	110	110	Impact Flexural Test Unnotched (KJ/m ²)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	78.0 °C	172 °F	unannealed; ISO 75
	94.0 °C	201 °F	annealed; ISO 75
Vicat Softening Point	92.0 °C	198 °F	50°C/hr; ISO 306

Thermal Properties	@Load 5.00 kg Metric	@Load 11.0 lb English	Comments
	99.0 °C	210 °F	120°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	100 °C	212 °F	50°C/hr; ISO 306
	@Load 1.00 kg	@Load 2.20 lb	
	104 °C	219 °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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