

Chi Mei Polyrex® PG-383 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

Material Notes:

High heat; high strength

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Polyrex-PG-383-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Melt Flow	2.2 g/10 min @Load 10.0 kg, Temperature 220 °C	2.2 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	141 MPa	20500 psi	H358/30; ISO 2039-1
Tensile Strength at Break	52.0 MPa	7540 psi	50 mm/min; ISO 527
Tensile Strength, Yield	54.0 MPa	7830 psi	50 mm/min; ISO 527
Elongation at Break	6.0 %	6.0 %	50 mm/min; ISO 527
Flexural Strength	89.0 MPa	12900 psi	2 mm/min; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	2.00 kJ/m ²	0.952 ft-lb/in ²	ISO 180/1A
Izod Impact, Unnotched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	ISO 180/1C
Charpy Impact Unnotched	1.10 J/cm ²	5.24 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179
Impact	3.00	3.00	Impact Flexural Test Notched (KJ/m ²)
	18.0	18.0	Impact Flexural Test Unnotched (KJ/m ²)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	unannealed; ISO 75
	99.0 °C	210 °F	annealed; ISO 75
Vicat Softening Point	103 °C	217 °F	50°C/hr; ISO 306

Thermal Properties	@Load 5.00 kg Metric	@Load 11.0 lb English	Comments
	106 °C	223 °F	50°C/hr; ISO 306
	@Load 1.00 kg	@Load 2.20 lb	
	107 °C	225 °F	120°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	110 °C	230 °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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