

Chi Mei Polyrex® PG-80 Polystyrene

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

Material Notes:

High strength

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Polyrex-PG-80-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Melt Flow	4.0 g/10 min @Load 10.0 kg, Temperature 220 °C	4.0 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	144 MPa	20900 psi	H358/30; ISO 2039-1
Tensile Strength at Break	45.0 MPa	6530 psi	50 mm/min; ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	50 mm/min; ISO 527
Elongation at Break	5.0 %	5.0 %	50 mm/min; ISO 527
Flexural Strength	68.0 MPa	9860 psi	2 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 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)
	17.0	17.0	Impact Flexural Test Unnotched (KJ/m ²)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	unannealed; ISO 75
	94.0 °C	201 °F	annealed; ISO 75
Vicat Softening Point	94.0 °C	201 °F	50°C/hr; ISO 306

Thermal Properties	@Load 5.00 kg Metric	@Load 11.0 lb English	Comments
	96.0 °C	205 °F	50°C/hr; ISO 306
	@Load 1.00 kg	@Load 2.20 lb	
	97.0 °C	207 °F	120°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	102 °C	216 °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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China