

Chi Mei Polyrex® PG-80N 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-80N-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Melt Flow	6.2 g/10 min @Load 10.0 kg, Temperature 220 °C	6.2 g/10 min @Load 22.0 lb, Temperature 428 °F	Melt Volume Rate (ml/10 min); ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	50 mm/min; ISO 527
Tensile Strength, Yield	41.0 MPa	5950 psi	50 mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	50 mm/min; ISO 527
Flexural Strength	76.0 MPa	11000 psi	2 mm/min; ISO 178
Flexural Modulus	3.00 GPa	435 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)	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180/1C
Charpy Impact Unnotched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	unannealed; ISO 75
Vicat Softening Point	92.0 °C @Load 5.00 kg	198 °F @Load 11.0 lb	50°C/hr; ISO 306
	97.0 °C @Load 1.00 kg	207 °F @Load 2.20 lb	50°C/hr; ISO 306
	97.0 °C @Load 5.00 kg	207 °F @Load 11.0 lb	120°C/hr; ISO 306

Thermal Properties	^{100 °C} Metric	^{212 °F} English	Comments
	@Load 1.00 kg	@Load 2.20 lb	120 °C/hr, ISO 306
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