

Chi Mei Polyrex® PG-22 Polystyrene

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

Material Notes:

TPE compound

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Polyrex-PG-22-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	ISO 1183
Melt Flow	18.8 g/10 min @Load 10.0 kg, Temperature 220 °C	18.8 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	40.0 MPa	5800 psi	50 mm/min; ISO 527
Tensile Strength, Yield	40.0 MPa	5800 psi	50 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	50 mm/min; ISO 527
Flexural Strength	68.0 MPa	9860 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/m²	0.952 ft-lb/in²	ISO 180/1A
Izod Impact, Unnotched (ISO)	6.00 kJ/m²	2.86 ft-lb/in²	ISO 180/1C
Charpy Impact Unnotched	0.700 J/cm²	3.33 ft-lb/in²	ISO 179
Charpy Impact, Notched	0.200 J/cm²	0.952 ft-lb/in²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	73.0 °C	163 °F	unannealed; ISO 75
Vicat Softening Point	88.0 °C @Load 5.00 kg	190 °F @Load 11.0 lb	50°C/hr; ISO 306
	91.0 °C @Load 5.00 kg	196 °F @Load 11.0 lb	120°C/hr; ISO 306
	93.0 °C @Load 1.00 kg	199 °F @Load 2.20 lb	50°C/hr; ISO 306

Thermal Properties	^{827.0 °C} Metric	^{2027 °F} English	Comments ^{120 °C/hr, ISO 306}
	@Load 1.00 kg	@Load 2.20 lb	
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	UL 94

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