

Chi Mei Polyrex® PH-55Y Polystyrene - Food

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-55Y-Polystyrene-Food.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Melt Flow	9.0 g/10 min @Load 10.0 kg, Temperature 220 °C	9.0 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	96.0 MPa	13900 psi	H358/30; ISO 2039-1
Tensile Strength at Break	25.0 MPa	3630 psi	50 mm/min; ISO 527
Tensile Strength, Yield	23.0 MPa	3340 psi	50 mm/min; ISO 527
Elongation at Break	60 %	60 %	50 mm/min; ISO 527
Flexural Strength	38.0 MPa	5510 psi	2 mm/min; ISO 178
Flexural Modulus	1.30 GPa	189 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 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	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179
Impact	6.00	6.00	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)	74.0 °C	165 °F	unannealed; ISO 75
	87.0 °C	189 °F	annealed; ISO 75
Vicat Softening Point	87.0 °C	189 °F	50°C/hr; ISO 306

Thermal Properties	@Load 5.00 kg Metric	@Load 11.0 lb English	Comments
	93.0 °C	199 °F	120°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	94.0 °C	201 °F	50°C/hr; ISO 306
	@Load 1.00 kg	@Load 2.20 lb	
	100 °C	212 °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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