

Chi Mei Polylac® PA-777D ABS - High Heat

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Heat Resistant, Molded

Material Notes:

Super High Heat

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Polylac-PA-777D-ABS-High-Heat.php

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	6.0 g/10 min @Load 10.0 kg, Temperature 220 °C	6.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO-1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Ball Indentation Hardness	102 MPa	14800 psi	H358/30; ISO 2039-1
Tensile Strength at Break	38.0 MPa	5510 psi	50 mm/min; ISO 527
Tensile Strength, Yield	45.0 MPa	6530 psi	50 mm/min; ISO 527
Elongation at Break	13 %	13 %	50 mm/min; ISO 527
Flexural Strength	73.0 MPa	10600 psi	2 mm/min; ISO 178
Flexural Modulus	2.30 GPa	334 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.44 J/cm @Thickness 6.35 mm	2.70 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.77 J/cm @Thickness 3.17 mm	3.32 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	ISO 180/1A
Izod Impact, Unnotched (ISO)	125 kJ/m ²	59.5 ft-lb/in ²	ISO 180/1C
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	1.10 J/cm ²	5.24 ft-lb/in ²	ISO 179
Impact	10.0	10.0	Impact Flexural Test Notched (KJ/m ²)

Mechanical Properties	^{MB} Metric	^{MB} English	Impact Flexural Test Unnotched (KJ/m ²)
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	103 °C	217 °F	unannealed; ISO 75
	113 °C	235 °F	annealed; ISO 75
Vicat Softening Point	115 °C	239 °F	50°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	118 °C	244 °F	120°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	125 °C	257 °F	50°C/hr; ISO 306
	@Load 1.00 kg	@Load 2.20 lb	
	127 °C	261 °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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