

Chi Mei Polylac® PA-707 ABS

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

Material Notes:

High gloss, high rigid

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Polylac-PA-707-ABS.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	1.9 g/10 min	1.9 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	20 g/10 min	20 g/10 min	ISO-1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D785
Ball Indentation Hardness	115 MPa	16700 psi	H358/30; ISO 2039-1
Tensile Strength at Break	38.0 MPa	5510 psi	50 mm/min; ISO 527
Tensile Strength, Yield	56.0 MPa	8120 psi	50 mm/min; ISO 527
Elongation at Break	20 %	20 %	50 mm/min; ISO 527
Flexural Strength	79.0 MPa	11500 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	2.70 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
	1.44 J/cm	2.70 ft-lb/in	
	@Thickness 6.35 mm	@Thickness 0.250 in	
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	ISO 180/1A
Izod Impact, Unnotched (ISO)	90.0 kJ/m ²	42.8 ft-lb/in ²	ISO 180/1C
Charpy Impact Unnotched	NB	NB	ISO 179

Charpy Impact, Notched Mechanical Properties	1.10 J/cm ² Metric	8.24 ft-lb/in ² English	ISO 179 Comments
Impact	9.00	9.00	Impact Flexural Test Notched (KJ/m ²)
	NB	NB	Impact Flexural Test Unnotched (KJ/m ²)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	unannealed; ISO 75
	98.0 °C	208 °F	annealed; ISO 75
Vicat Softening Point	100 °C	212 °F	50°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	102 °C	216 °F	120°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
104 °C	219 °F	50°C/hr; ISO 306	
@Load 1.00 kg	@Load 2.20 lb		
106 °C	223 °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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