

Chi Mei Polylac® PA-709 ABS

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

Material Notes:

Super impact

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Polylac-PA-709-ABS.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	0.50 g/10 min	0.50 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	5.0 g/10 min	5.0 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	102	102	ASTM D785
Ball Indentation Hardness	86.0 MPa	12500 psi	H358/30; ISO 2039-1
Tensile Strength at Break	32.0 MPa	4640 psi	50 mm/min; ISO 527
Tensile Strength, Yield	40.0 MPa	5800 psi	50 mm/min; ISO 527
Elongation at Break	55 %	55 %	50 mm/min; ISO 527
Flexural Strength	58.0 MPa	8410 psi	2 mm/min; ISO 178
Flexural Modulus	1.80 GPa	261 ksi	2 mm/min; ISO 178
Izod Impact, Notched	4.10 J/cm	7.68 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	4.65 J/cm	8.71 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	31.0 kJ/m ²	14.8 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 Mechanical Properties	3.20 J/cm ² Metric	15.2 ft-lb/in ² English	ISO 179 Comments
Impact	21.0	21.0	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	94.0 °C @Load 5.00 kg	201 °F @Load 11.0 lb	50°C/hr; ISO 306
	95.0 °C @Load 5.00 kg	203 °F @Load 11.0 lb	120°C/hr; ISO 306
	103 °C @Load 1.00 kg	217 °F @Load 2.20 lb	50°C/hr; ISO 306
	104 °C @Load 1.00 kg	219 °F @Load 2.20 lb	120°C/hr; ISO 306
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	UL 94

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