

Chi Mei Polylac® PA-747 ABS

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

Material Notes:

High impact

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Polylac-PA-747-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	1.2 g/10 min	1.2 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	13 g/10 min	13 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	108	108	ASTM D785
Ball Indentation Hardness	88.0 MPa	12800 psi	H358/30; ISO 2039-1
Tensile Strength at Break	31.0 MPa	4500 psi	50 mm/min; ISO 527
Tensile Strength, Yield	39.0 MPa	5660 psi	50 mm/min; ISO 527
Elongation at Break	45 %	45 %	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	3.66 J/cm	6.86 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	4.15 J/cm	7.77 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	29.0 kJ/m ²	13.8 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	3.00 J/cm² Metric	14.3 ft-lb/in² English	ISO 179 Comments
Impact	20.0	20.0	Impact Flexural Test Notched (KJ/m²)
	NB	NB	Impact Flexural Test Unnotched (KJ/m²)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	unannealed; ISO 75
	96.0 °C	205 °F	annealed; ISO 75
Vicat Softening Point	92.0 °C @Load 5.00 kg	198 °F @Load 11.0 lb	50°C/hr; ISO 306
	94.0 °C @Load 5.00 kg	201 °F @Load 11.0 lb	120°C/hr; ISO 306
	101 °C @Load 1.00 kg	214 °F @Load 2.20 lb	50°C/hr; ISO 306
	103 °C @Load 1.00 kg	217 °F @Load 2.20 lb	120°C/hr; ISO 306
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	UL 94

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	193 °C	380 °F	
Middle Barrel Temperature	216 °C	420 °F	
Front Barrel Temperature	227 °C	440 °F	
Melt Temperature	232 - 260 °C	450 - 500 °F	Nozzle temp not greater than stock
Mold Temperature	48.9 - 65.6 °C	120 - 150 °F	
Drying Temperature	87.8 - 93.3 °C	190 - 200 °F	
Dry Time	2 - 24.0 hour	2 - 24.0 hour	
Injection Pressure	68.9 - 82.7 MPa	10000 - 12000 psi	
Back Pressure	0.689 MPa	100 psi	
Screw Speed	50 - 60 rpm	50 - 60 rpm	

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