

Chi Mei Polylac® PA-764 ABS - Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

F.R. Weather Resistant

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Polylac-PA-764-ABS-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	3.3 g/10 min	3.3 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	33 g/10 min	33 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	96	96	ASTM D785
Ball Indentation Hardness	75.0 MPa	10900 psi	H358/30; ISO 2039-1
Tensile Strength at Break	29.0 MPa	4210 psi	50 mm/min; ISO 527
Tensile Strength, Yield	39.0 MPa	5660 psi	50 mm/min; ISO 527
Elongation at Break	10 %	10 %	50 mm/min; ISO 527
Flexural Strength	55.0 MPa	7980 psi	2 mm/min; ISO 178
Flexural Modulus	1.70 GPa	247 ksi	2 mm/min; ISO 178
Izod Impact, Notched	1.22 J/cm	2.29 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	1.44 J/cm	2.70 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	13.0 kJ/m ²	6.19 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	1.49 J/cm ² Metric	6.66 ft-lb/in ² English	ISO 179 Comments
Impact	9.00	9.00	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
	96.0 °C	205 °F	annealed; ISO 75
Vicat Softening Point	84.0 °C @Load 5.00 kg	183 °F @Load 11.0 lb	50°C/hr; ISO 306
	87.0 °C @Load 5.00 kg	189 °F @Load 11.0 lb	120°C/hr; ISO 306
	98.0 °C @Load 1.00 kg	208 °F @Load 2.20 lb	120°C/hr; ISO 306
	99.0 °C @Load 1.00 kg	210 °F @Load 2.20 lb	50°C/hr; ISO 306
Flammability, UL94	V-0 @Thickness 1.59 mm	V-0 @Thickness 0.0625 in	UL 94
	5VA @Thickness 2.54 mm	5VA @Thickness 0.100 in	UL 94

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