

Chi Mei Polylac® PA-765B ABS - Flame Retardant

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

Material Notes:

F.R. Medium Impact

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Polylac-PA-765B-ABS-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	4.2 g/10 min	4.2 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	42 g/10 min	42 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	82.0 MPa	11900 psi	H358/30; ISO 2039-1
Tensile Strength at Break	30.0 MPa	4350 psi	50 mm/min; ISO 527
Tensile Strength, Yield	41.0 MPa	5950 psi	50 mm/min; ISO 527
Elongation at Break	10 %	10 %	50 mm/min; ISO 527
Flexural Strength	57.0 MPa	8270 psi	2 mm/min; ISO 178
Flexural Modulus	1.80 GPa	261 ksi	2 mm/min; ISO 178
Izod Impact, Notched	2.22 J/cm	4.16 ft-lb/in	ASTM D256
	@Thickness 6.35 mm	@Thickness 0.250 in	
	2.66 J/cm	4.98 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched (ISO)	20.0 kJ/m ²	9.52 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	2.00 J/cm ² Metric	9.52 ft-lb/in ² English	ISO 179 Comments
Impact	13.0	13.0	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)	77.0 °C	171 °F	unannealed; ISO 75
	91.0 °C	196 °F	annealed; ISO 75
Vicat Softening Point	79.0 °C @Load 5.00 kg	174 °F @Load 11.0 lb	50°C/hr; ISO 306
	82.0 °C @Load 5.00 kg	180 °F @Load 11.0 lb	120°C/hr; ISO 306
	90.0 °C @Load 1.00 kg	194 °F @Load 2.20 lb	50°C/hr; ISO 306
	92.0 °C @Load 1.00 kg	198 °F @Load 2.20 lb	120°C/hr; ISO 306
Flammability, UL94	V-2 @Thickness 2.12 mm	V-2 @Thickness 0.0833 in	UL 94
	V-0 @Thickness 2.54 mm	V-0 @Thickness 0.100 in	UL 94
	5VA @Thickness 3.17 mm	5VA @Thickness 0.125 in	UL 94

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