

Chi Mei Polylac® PA-746Y ABS (discontinued **)

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

Material Notes:

Medium flow, high impact

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Polylac-PA-746Y-ABS-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ISO 1183
Melt Flow	15 g/10 min @Load 10.0 kg, Temperature 220 °C	15 g/10 min @Load 22.0 lb, Temperature 428 °F	Melt Volume Rate (ml/10 min); ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	101 MPa	14600 psi	H358/30; ISO 2039-1
Tensile Strength at Break	35.0 MPa	5080 psi	50 mm/min; ISO 527
Tensile Strength, Yield	47.0 MPa	6820 psi	50 mm/min; ISO 527
Elongation at Break	15 %	15 %	50 mm/min; ISO 527
Flexural Strength	65.0 MPa	9430 psi	2 mm/min; ISO 178
Flexural Modulus	2.00 GPa	290 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	23.0 kJ/m ²	10.9 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	2.60 J/cm ²	12.4 ft-lb/in ²	ISO 179
Impact	17.0	17.0	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)	86.0 °C	187 °F	unannealed; ISO 75
	99.0 °C	210 °F	annealed; ISO 75
Vicat Softening Point	98.0 °C	208 °F	120°C/hr; ISO 306

Thermal Properties	@Load 5.00 kg Metric	@Load 11.0 lb English	Comments
	98.0 °C	208 °F	50°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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