

Chi Mei Polylac® PA-758 ABS - Transparent

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

Material Notes:

Transparent

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Polylac-PA-758-ABS-Transparent.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Melt Flow	34 g/10 min @Load 10.0 kg, Temperature 220 °C	34 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	90.0 MPa	13100 psi	H358/30; ISO 2039-1
Tensile Strength at Break	33.0 MPa	4790 psi	50 mm/min; ISO 527
Tensile Strength, Yield	42.0 MPa	6090 psi	50 mm/min; ISO 527
Elongation at Break	50 %	50 %	50 mm/min; ISO 527
Flexural Strength	56.0 MPa	8120 psi	2 mm/min; ISO 178
Flexural Modulus	1.50 GPa	218 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	12.0 kJ/m ²	5.71 ft-lb/in ²	ISO 180/1A
Charpy Impact, Notched	1.20 J/cm ²	5.71 ft-lb/in ²	ISO 179
Impact	11.0	11.0	Impact Flexural Test Notched (KJ/m ²)
	60.0	60.0	Impact Flexural Test Unnotched (KJ/m ²)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	unannealed; ISO 75
	96.0 °C	205 °F	annealed; ISO 75
Vicat Softening Point	98.0 °C	208 °F	50°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	101 °C	214 °F	120°C/hr; ISO 306

Thermal Properties	@Load 5.00 kg Metric	@Load 11.0 lb English	Comments
	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	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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