

## Chi Mei Polylac® PA-747S ABS - Extrusion

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

### Material Notes:

High Impact Extrusion

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chi-Mei-Polylac-PA-747S-ABS-Extrusion.php](http://www.lookpolymers.com/polymer_Chi-Mei-Polylac-PA-747S-ABS-Extrusion.php)

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	4.4 g/10 min @Load 5.00 kg, Temperature 230 °C	4.4 g/10 min @Load 11.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	101	101	ASTM D785
Ball Indentation Hardness	89.0 MPa	12900 psi	H358/30; ISO 2039-1
Tensile Strength at Break	30.0 MPa	4350 psi	50 mm/min; ISO 527
Tensile Strength, Yield	40.0 MPa	5800 psi	50 mm/min; ISO 527
Elongation at Break	40 %	40 %	50 mm/min; ISO 527
Flexural Strength	57.0 MPa	8270 psi	2 mm/min; ISO 178
Flexural Modulus	1.70 GPa	247 ksi	2 mm/min; ISO 178
Izod Impact, Notched	3.93 J/cm @Thickness 3.17 mm	7.36 ft-lb/in @Thickness 0.125 in	
Izod Impact, Notched (ISO)	29.0 kJ/m <sup>2</sup>	13.8 ft-lb/in <sup>2</sup>	ISO 180/1A
Izod Impact, Unnotched (ISO)	NB	NB	ISO 180/1C
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	3.10 J/cm <sup>2</sup>	14.8 ft-lb/in <sup>2</sup>	ISO 179
Impact	19.0	19.0	Impact Flexural Test Notched (KJ/m <sup>2</sup> )
	NB	NB	Impact Flexural Test Unnotched (KJ/m <sup>2</sup> )

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °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	
	102 °C	216 °F	120°C/hr; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	103 °C	217 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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