

Chi Mei® PA-747

High impact

Vendors: No vendors are listed for this material. Please click [here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 - 0.0070 cm/cm	0.0030 - 0.0070 in/in	ASTM D955
Melt Flow	1.2 g/10 min @Load 5.00 kg, Temperature 200 °C	1.2 g/10 min @Load 11.0 lb, Temperature 392 °F	ASTM D1238
	13 g/10 min @Load 10.0 kg, Temperature 220 °C	13 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO-1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Ball Indentation Hardness	88.0 MPa	12800 psi	H358/30; ISO 2039-1
Tensile Strength at Break	31.0 MPa	4500 psi	50 mm/min; ISO 527
Tensile Strength, Yield	39.0 MPa	5660 psi	50 mm/min; ISO 527
Elongation at Break	45 %	45 %	50 mm/min; ISO 527
Flexural Strength	58.0 MPa	8410 psi	2 mm/min; ISO 178
Flexural Modulus	1.80 GPa	261 ksi	2 mm/min; ISO 178
Izod Impact, Notched	3.66 J/cm @Thickness 6.35 mm	6.86 ft-lb/in @Thickness 0.250 in	ASTM D256
	4.15 J/cm @Thickness 3.17 mm	7.77 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	29.0 kJ/m ²	13.8 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	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179
Impact	20	20	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
	96.0 °C	205 °F	annealed; ISO 75
Vicat Softening Point	92.0 °C @Load 5.00 kg	198 °F @Load 11.0 lb	50°C/hr; ISO 306
	94.0 °C @Load 5.00 kg	201 °F @Load 11.0 lb	120°C/hr; ISO 306
	101 °C @Load 1.00 kg	214 °F @Load 2.20 lb	50°C/hr; ISO 306
	103 °C @Load 1.00 kg	217 °F @Load 2.20 lb	120°C/hr; ISO 306
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	UL 94