

LATI Laticonther 83 CP/80 PA12, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

High thermal conductivity product based on Polyamide 12 (PA12), impact modified. Special filler. Availability: Africa & Middle East; Asia Pacific; Europe; Latin America; North America Information provided by Lati Industria Termoplastici S.p.A.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LATI-Laticonther-83-CP80-PA12-Impact-Modified.php

Physical Properties	Metric	English	Comments
Density	2.96 g/cc	0.107 lb/in ³	
Linear Mold Shrinkage, Flow	0.0065 - 0.0085 cm/cm	0.0065 - 0.0085 in/in	
Linear Mold Shrinkage, Transverse	0.0065 - 0.0085 cm/cm	0.0065 - 0.0085 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	
Elongation at Break	1.4 %	1.4 %	
Tensile Modulus	3.70 GPa	537 ksi	
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	2.10 W/m-K	14.6 BTU-in/hr-ft ² - °F	Longitudinal
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	
Vicat Softening Point	150 °C @Load 5.00 kg	302 °F @Load 11.0 lb	
Glow Wire Test	750 °C @Thickness 1.00 mm	1380 °F @Thickness 0.0394 in	GWFI/GWT
	750 °C @Thickness 2.00 mm	1380 °F @Thickness 0.0787 in	GWFI/GWT
	775 °C	1430 °F	

Thermal Properties	Metric @Thickness 1.00 mm	English @Thickness 0.0394 in	GWIT Comments
	775 Â°C	1430 Â°F	GWIT
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 260 Â°C	464 - 500 Â°F	
Mold Temperature	50.0 - 70.0 Â°C	122 - 158 Â°F	
Drying Temperature	70.0 - 90.0 Â°C	158 - 194 Â°F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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