

LATI Latilon 28D K/40 PC, 40% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon Fiber Reinforced

Material Notes:

Polycarbonate (PC) based compound. Carbon fiber. Low smoke density and low toxicity index. 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-Latilon-28D-K40-PC-40-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	
Linear Mold Shrinkage, Flow	0.00050 - 0.0015 cm/cm	0.00050 - 0.0015 in/in	
Linear Mold Shrinkage, Transverse	0.0015 - 0.0030 cm/cm	0.0015 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	100 MPa	14500 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	115 MPa	16700 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	135 MPa	19600 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.3 %	1.3 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.3 %	1.3 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	1.3 %	1.3 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	1.4 %	1.4 %	

Mechanical Properties	@Temperature 120 Â°C Metric	@Temperature 248 Â°F English	Comments
Tensile Modulus	14.0 GPa	2030 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	15.6 GPa	2260 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	16.8 GPa	2440 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	18.0 GPa	2610 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	
Charpy Impact, Notched	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	135 Â°C	275 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	145 Â°C	293 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	140 Â°C	284 Â°F	
Vicat Softening Point	145 Â°C	293 Â°F	
	@Load 5.00 kg	@Load 11.0 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 Â°C	536 - 572 Â°F	
Mold Temperature	100 - 120 Â°C	212 - 248 Â°F	
Drying Temperature	120 - 130 Â°C	248 - 266 Â°F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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