

LATI Latilon 28D K/20 PC, 20% 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-K20-PC-20-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0020 - 0.0035 cm/cm	0.0020 - 0.0035 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	
	@Temperature 120 Å°C	@Temperature 248 Å°F	
	90.0 MPa	13100 psi	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	110 MPa	16000 psi	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
Elongation at Break	130 MPa	18900 psi	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	1.6 %	1.6 %	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	1.6 %	1.6 %	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	1.6 %	1.6 %	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	1.7 %	1.7 %	
	@Temperature 120 Å°C	@Temperature 248 Å°F	

Mechanical Properties	Metric	English	Comments
Tensile Modulus	@Temperature 120 Å°C	@Temperature 248 Å°F	
	10.5 GPa	1520 ksi	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	11.5 GPa	1670 ksi	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	12.0 GPa	1740 ksi	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact Unnotched	3.00 J/cmÅ²	14.3 ft-lb/inÅ²	
Charpy Impact, Notched	0.800 J/cmÅ²	3.81 ft-lb/inÅ²	

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

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

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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