

LATI Latilon 28D G/20 PC, 20% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

Polycarbonate (PC) based compound. Glass fibers. Low smoke density and low toxicity index. High dimensional stability. 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-G20-PC-20-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	60.0 MPa	8700 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	75.0 MPa	10900 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	90.0 MPa	13100 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.6 %	1.6 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	1.9 %	1.9 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	2.2 %	2.2 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.5 %	2.5 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Mechanical Properties	Metric	English	Comments
Tensile Modulus	@Temperature 120 Â°C	@Temperature 248 Â°F	
	4.30 GPa	624 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	4.70 GPa	682 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	5.10 GPa	740 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	4.00 J/cmÂ²	19.0 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	0.550 J/cmÂ²	2.62 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 Â°C	266 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	140 Â°C	284 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	135 Â°C	275 Â°F	
Vicat Softening Point	145 Â°C	293 Â°F	
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	V-1	V-1	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	31 %	31 %	

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 @Time 10800 sec	248 - 266 Â°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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