

## LATI Latilon 30D G/10-V0 PC, 10% Glass Fiber Reinforced, Flame Retardant

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled , Polycarbonate, Glass Fiber Filled, Flame Retardant

### Material Notes:

Polycarbonate (PC) based compound. Glass fibers. UL94 V-0 classified, brominated and chlorinated halogens-based flame retardants free.

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-30D-G10-V0-PC-10-Glass-Fiber-Reinforced-Flame-Retardant.php](http://www.lookpolymers.com/polymer_LATI-Latilon-30D-G10-V0-PC-10-Glass-Fiber-Reinforced-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in <sup>3</sup>	
Linear Mold Shrinkage, Flow	0.0045 - 0.0065 cm/cm	0.0045 - 0.0065 in/in	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0075 cm/cm	0.0060 - 0.0075 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	25.0 MPa	3630 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	45.0 MPa	6530 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	28 %	28 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	35 %	35 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	>= 100 %	>= 100 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	>= 100 %	>= 100 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
Elongation at Yield	2.2 %	2.2 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	2.8 %	2.8 %	

Mechanical Properties	Metric	English	Comments
	3.0 % @Temperature 90.0 °C	3.0 % @Temperature 194 °F	
	4.0 % @Temperature 60.0 °C	4.0 % @Temperature 140 °F	
	4.0 % @Temperature 23.0 °C	4.0 % @Temperature 73.4 °F	
Tensile Modulus	2.20 GPa @Temperature 120 °C	319 ksi @Temperature 248 °F	
	2.80 GPa @Temperature 90.0 °C	406 ksi @Temperature 194 °F	
	2.90 GPa @Temperature 60.0 °C	421 ksi @Temperature 140 °F	
	3.10 GPa @Temperature 23.0 °C	450 ksi @Temperature 73.4 °F	
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	
	NB @Temperature -20.0 °C	NB @Temperature -4.00 °F	
Charpy Impact, Notched	0.600 J/cm <sup>2</sup> @Temperature -20.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	
	0.750 J/cm <sup>2</sup> @Temperature 23.0 °C	3.57 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	130 °C	266 °F	
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	
Deflection Temperature at 1.8 MPa (264 psi)	130 °C	266 °F	

Thermal Properties <small>Heat Softening Point</small>	145 Â°C Metric	293 Â°F English	Comments
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	V-2	V-2	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	34 %	34 %	
Glow Wire Test	850 Â°C	1560 Â°F	GWIT
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	850 Â°C	1560 Â°F	GWIT
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	960 Â°C	1760 Â°F	GWFI/GWT
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	960 Â°C	1760 Â°F	GWFI/GWT
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	175 V	175 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 Â°C	518 - 554 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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