

LATI Lapex R G/20 PPSU, 20% Glass Reinforced

Category : Polymer , Thermoplastic , Polyphenylsulfone (PPSU)

Material Notes:

Polyphenylene Sulfone (PPSU) based compound. Glass fibers. Low smoke density and low toxicity index. Very 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-Lapex-R-G20-PPSU-20-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	
Linear Mold Shrinkage, Flow	0.0040 - 0.0055 cm/cm	0.0040 - 0.0055 in/in	
Linear Mold Shrinkage, Transverse	0.0080 - 0.0095 cm/cm	0.0080 - 0.0095 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	85.0 MPa	12300 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	95.0 MPa	13800 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	105 MPa	15200 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	110 MPa	16000 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	2.1 %	2.1 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	2.2 %	2.2 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.2 %	2.2 %	
	@Temperature 90.0		

Mechanical Properties	°C Metric	@Temperature 194 °F English	Comments
	2.2 %	2.2 %	
	@Temperature 120 °C	@Temperature 248 °F	
	2.5 %	2.5 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Tensile Modulus	4.60 GPa	667 ksi	
	@Temperature 150 °C	@Temperature 302 °F	
	4.80 GPa	696 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
	5.10 GPa	740 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	5.60 GPa	812 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	5.90 GPa	856 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	2.50 J/cm²	11.9 ft-lb/in²	
Charpy Impact, Notched	1.50 J/cm²	7.14 ft-lb/in²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	190 °C	374 °F	
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	
Vicat Softening Point	220 °C	428 °F	
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	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			

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	350 - 390 Â°C	662 - 734 Â°F	
Mold Temperature	150 - 190 Â°C	302 - 374 Â°F	
Drying Temperature	140 - 180 Â°C @Time 10800 sec	284 - 356 Â°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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