

LATI Laramid CE/60 PPA, 60% Mineral Reinforced

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), Mineral Filled

Material Notes:

Semi-aromatic polyamide (PPA) based compound. Mineral filler. High dimensional stability. Good chemical resistance. Low moisture absorption. 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-Laramid-CE60-PPA-60-Mineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in ³	
Linear Mold Shrinkage, Flow	0.0040 - 0.0065 cm/cm	0.0040 - 0.0065 in/in	
Linear Mold Shrinkage, Transverse	0.0045 - 0.0070 cm/cm	0.0045 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	65.0 MPa	9430 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	95.0 MPa	13800 psi	
Elongation at Break	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	115 MPa	16700 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	130 MPa	18900 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.5 %	1.5 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.7 %	1.7 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	1.9 %	1.9 %	

Mechanical Properties	Metric	English	Comments
	3.5 %	3.5 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	6.5 %	6.5 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	2.50 GPa	363 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	5.30 GPa	769 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	7.10 GPa	1030 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	8.70 GPa	1260 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	9.50 GPa	1380 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	0.200 J/cmÂ²	0.952 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	140 Â°C	284 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	290 Â°C	554 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	245 Â°C	473 Â°F	
Vicat Softening Point	255 Â°C	491 Â°F	
	@Load 5.00 kg	@Load 11.0 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	310 - 340 Â°C	590 - 644 Â°F	
Mold Temperature	150 - 170 Â°C	302 - 338 Â°F	
	120 - 130 Â°C	248 - 266 Â°F	

Drying Temperature	Metric	English	
Processing Properties	@ Time 10800 sec	@ Time 3.00 hour	Comments

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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