

LATI Latene® 7H2W-V0 PP Homopolymer, Heat Stabilized, Flame Retardant

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Flame Retardant

Material Notes:

Polypropylene homopolymer (PPh) based compound. Heat stabilized. Metal stabilized. UL94 V-0 classified, halogens-based flame retardants and red phosphorous free. 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-Latene-7H2W-V0-PP-Homopolymer-Heat-Stabilized-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	
Linear Mold Shrinkage, Flow	0.012 - 0.015 cm/cm	0.012 - 0.015 in/in	
Linear Mold Shrinkage, Transverse	0.012 - 0.015 cm/cm	0.012 - 0.015 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	15.0 MPa	2180 psi	
Elongation at Break	20 %	20 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	>= 100 %	>= 100 %	
Elongation at Yield	@Temperature 60.0 °C	@Temperature 140 °F	
	>= 100 %	>= 100 %	
	@Temperature 90.0 °C	@Temperature 194 °F	
Elongation at Yield	5.0 %	5.0 %	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	>= 10 %	>= 10 %	
Tensile Modulus	@Temperature 60.0 °C	@Temperature 140 °F	
	>= 10 %	>= 10 %	
	@Temperature 90.0 °C	@Temperature 194 °F	
Tensile Modulus	0.500 GPa	72.5 ksi	
	@Temperature 90.0		

Mechanical Properties	°C Metric	@Temperature 194 °F English	Comments
	0.800 GPa	116 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	1.80 GPa	261 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	2.50 J/cm ²	11.9 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.0800 J/cm ²	0.381 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.200 J/cm ²	0.952 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	100 °C	212 °F	
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	
Vicat Softening Point	100 °C	212 °F	
	@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	33 %	33 %	
	825 °C	1520 °F	

Glow Wire Test Thermal Properties	Metric @Thickness 1.00 mm	English @Thickness 0.0394 in	GWIT Comments
	825 Â°C @Thickness 2.00 mm	1520 Â°F @Thickness 0.0787 in	GWIT
	960 Â°C @Thickness 1.00 mm	1760 Â°F @Thickness 0.0394 in	GWFI/GWT
	960 Â°C @Thickness 2.00 mm	1760 Â°F @Thickness 0.0787 in	GWFI/GWT

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 210 Â°C	356 - 410 Â°F	
Mold Temperature	20.0 - 40.0 Â°C	68.0 - 104 Â°F	
Drying Temperature	80.0 - 90.0 Â°C @Time 10800 sec	176 - 194 Â°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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