

Laramid G/30-V0HF1

Polyphthalamide

LATI S.p.A.

Message:

Semi-aromatic polyamide (PPA) based compound.

Glass fibres. UL94 V-0 classified, halogens-based flame retardants and red phosphorous free. Very good thermal properties. Good chemical resistance.

Low moisture absorption.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Chemical Resistance		
	Halogenated		
	Low (to None) Phosphorus Content		
	Low Moisture Absorption		
Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.70 to 1.0	%	
Flow : 2.00 mm	0.35 to 0.50	%	
Water Absorption (23°C, 24 hr)	0.22	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	14000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	110	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	1.2	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	20	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	290	°C	ISO 75-2/B
1.8 MPa, Unannealed	260	°C	ISO 75-2/A
Continuous Use Temperature ²	140	°C	
Vicat Softening Temperature	260	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	8.0E-6	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94

0.750 mm	V-0	
1.50 mm	V-0	
3.00 mm	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
1.00 mm	960	°C
2.00 mm	960	°C
Glow Wire Ignition Temperature		IEC 60695-2-13
1.00 mm	775	°C
2.00 mm	775	°C
Injection	Nominal Value	Unit
Drying Temperature	120 to 130	°C
Drying Time	3.0	hr
Suggested Max Regrind	15	%
Processing (Melt) Temp	310 to 330	°C
Mold Temperature	150 to 170	°C
Injection Rate	Moderate	
NOTE		
1.	60 MPa	
2.	20,000 hr	

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