

Laril 13 G/10-V1

Polyphenylene Ether + PS

LATI S.p.A.

Message:

Modified Polyphenylene Oxide (PPOm) based compound.

Glass fibres. UL94 V-1 classified, halogens-based flame retardants and red phosphorous free. Very high dimensional stability. Good thermal properties.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Dimensional Stability		
	Halogenated		
	Low (to None) Phosphorus Content		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.55 to 0.75	%	
Flow : 2.00 mm	0.45 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	4000	MPa	
60°C	3400	MPa	
90°C	2800	MPa	
120°C	2400	MPa	
Tensile Stress			ISO 527-2/5
Yield, 90°C	45.0	MPa	
Yield, 120°C	20.0	MPa	
Break, 23°C	65.0	MPa	
Break, 60°C	60.0	MPa	
Break, 90°C	35.0	MPa	
Break, 120°C	15.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 90°C	2.0	%	
Yield, 120°C	2.0	%	
Break, 23°C	3.5	%	
Break, 60°C	3.5	%	
Break, 90°C	3.8	%	
Break, 120°C	4.5	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	25	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	130	°C	ISO 75-2/B
1.8 MPa, Unannealed	120	°C	ISO 75-2/A
Continuous Use Temperature ²	110	°C	
Vicat Softening Temperature	130	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	5.0E-6	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-1		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Oxygen Index	28	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0	hr	
Suggested Max Regrind	15	%	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	80.0 to 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	60 MPa		
2.	20,000 hr		

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