

Laril 13 G/20-V1

Polyphenylene Ether + PS

LATI S.p.A.

Message:

Compound based on Modified Polyphenylene Oxyde (PPOm).

Glass fibres. UL94 V-1 classified, halogens and red phosphorous free. Product UL certified.

High dimensional stability. Good thermal resistance.

General Information			
UL YellowCard	E54080-244054	E54080-244055	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Dimensional Stability		
	Halogen Free		
	Low (to None) Phosphorus Content		
	Medium Heat Resistance		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.50 to 0.70	%	
Flow : 2.00 mm	0.40 to 0.65	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	6900	MPa	
60°C	6000	MPa	
90°C	5400	MPa	
120°C	3300	MPa	
Tensile Stress			ISO 527-2/5
Yield, 90°C	50.0	MPa	
Yield, 120°C	25.0	MPa	
Break, 23°C	90.0	MPa	
Break, 60°C	70.0	MPa	
Break, 90°C	45.0	MPa	
Break, 120°C	20.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 90°C	1.5	%	
Yield, 120°C	1.5	%	
Break, 23°C	2.0	%	
Break, 60°C	2.0	%	
Break, 90°C	2.2	%	
Break, 120°C	3.0	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.0	kJ/m ²	
23°C	7.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	25	kJ/m ²	
23°C	25	kJ/m ²	
Notched Izod Impact (23°C, 3.20 mm)	75	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	130	°C	ISO 75-2/B
1.8 MPa, Unannealed	125	°C	ISO 75-2/A
Continuous Use Temperature ²	115	°C	
Vicat Softening Temperature	130	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	3.0E-6	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index ³ (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	31	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	260 to 280	°C	
Mold Temperature	80.0 to 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		
3.	Without Surfactant		

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