

Laril 13 G/20

Polyphenylene Ether + PS

LATI S.p.A.

Message:

Compound based on Modified Polyphenylene Oxyde (PPOm).

Glass fibres.

Low thermal expansion coefficient. Good thermal resistance.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Medium Heat Resistance		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	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	6300	MPa	
60°C	6300	MPa	
90°C	5800	MPa	
120°C	4200	MPa	
Tensile Stress			ISO 527-2/5
Yield, 60°C	60.0	MPa	
Yield, 90°C	45.0	MPa	
Yield, 120°C	30.0	MPa	
Break, 23°C	80.0	MPa	
Break, 60°C	60.0	MPa	
Break, 90°C	45.0	MPa	
Break, 120°C	25.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 60°C	2.0	%	
Yield, 90°C	1.8	%	
Yield, 120°C	1.7	%	
Break, 23°C	2.5	%	
Break, 60°C	2.5	%	
Break, 90°C	2.5	%	
Break, 120°C	4.0	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	5.0	kJ/m ²	

23°C	6.0	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)	80	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	135	°C	ISO 75-2/B
1.8 MPa, Unannealed	125	°C	ISO 75-2/A
Continuous Use Temperature ²	120	°C	
Vicat Softening Temperature	140	°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)	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	25	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	270 to 290	°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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