

Laramid G/15

Polyphthalamide

LATI S.p.A.

Message:

Compound based on Semi-aromatic polyamide.
Glass fibres.
Very good thermal properties. Good chemical resistance. Low moisture absorption.

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Features	Good Chemical Resistance		
	Low Moisture Absorption		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.85 to 1.2	%	
Flow : 2.00 mm	0.40 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C, Compression Molded	7200	MPa	
60°C	6800	MPa	
90°C	5700	MPa	
120°C	4400	MPa	
150°C	2000	MPa	
Tensile Stress			ISO 527-2/5
Yield, 120°C	80.0	MPa	
Yield, 150°C	55.0	MPa	
Break, 23°C	110	MPa	
Break, 60°C	105	MPa	
Break, 90°C	100	MPa	
Break, 120°C	75.0	MPa	
Break, 150°C	55.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 120°C	3.5	%	
Yield, 150°C	10	%	
Break, 23°C	2.0	%	
Break, 60°C	2.0	%	
Break, 90°C	2.0	%	
Break, 120°C	5.0	%	
Break, 150°C	12	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	4.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	17	kJ/m ²	
23°C	20	kJ/m ²	
Notched Izod Impact (23°C, 3.20 mm)	40	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	280	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	°C	ISO 75-2/A
Continuous Use Temperature ²	125	°C	
Vicat Softening Temperature	265	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	2.0E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	120 to 130	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	310 to 330	°C	
Mold Temperature	150 to 170	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		

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