

Laramid G/45

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,45% Filler by Weight		
Features	Good Chemical Resistance		
	Low Moisture Absorption		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.70 to 1.0	%	
Flow : 2.00 mm	0.25 to 0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	16000	MPa	
60°C	11200	MPa	
90°C	8500	MPa	
120°C	6700	MPa	
150°C	5800	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	245	MPa	
Break, 60°C	195	MPa	
Break, 90°C	170	MPa	
Break, 120°C	150	MPa	
Break, 150°C	95.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	2.5	%	
Break, 60°C	3.0	%	
Break, 90°C	3.8	%	
Break, 120°C	6.0	%	
Break, 150°C	7.0	%	
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)	85	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	100	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	290	°C	ISO 75-2/B
1.8 MPa, Unannealed	280	°C	ISO 75-2/A
Continuous Use Temperature ²	140	°C	
Vicat Softening Temperature	275	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	5.0E-6	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 340	°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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