

Laramid D G/35-V0

Polyphthalamide

LATI S.p.A.

Message:

Compound based on Semi-aromatic polyamide.

Glass fibres. UL94 V-0 classified, with halogens.

Good chemical resistance. Low moisture absorption.

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Chemical Resistance		
	Halogenated		
	Low Moisture Absorption		
Physical	Nominal Value	Unit	Test Method
Density	1.63	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	0.30 to 0.55	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	16000	MPa	
60°C	15500	MPa	
90°C	15000	MPa	
120°C	15000	MPa	
150°C	10000	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	180	MPa	
Break, 60°C	170	MPa	
Break, 90°C	140	MPa	
Break, 120°C	135	MPa	
Break, 150°C	85.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.3	%	
Break, 60°C	1.3	%	
Break, 90°C	1.5	%	
Break, 120°C	1.7	%	
Break, 150°C	3.6	%	
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/1eA
-20°C	7.5	kJ/m ²	
23°C	6.5	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	265	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	°C	ISO 75-2/A
Continuous Use Temperature ²	125	°C	
Vicat Softening Temperature	230	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	6.0E-6	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index ³ (Solution A)	350	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
2.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	800	°C	
2.00 mm	800	°C	
Oxygen Index	42	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	310 to 330	°C	
Mold Temperature	130 to 160	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		
3.	Without Surfactant		

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