

Larton G/40 I6

Polyphenylene Sulfide

LATI S.p.A.

Message:

Polyphenylene Sulphide (PPS) based compound.

Glass fibres. Intrinsically flame retardant. Good elongation. Very good chemical resistance. Very good thermal properties. Low smoke density and low toxicity index.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	Flame Retardant		
	Good Chemical Resistance		
	Low Smoke Emission		
Physical	Nominal Value	Unit	Test Method
Density	1.65	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.70 to 1.1	%	
Flow : 2.00 mm	0.15 to 0.45	%	
Water Absorption (23°C, 24 hr)	0.040	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	15000	MPa	
60°C	14500	MPa	
90°C	14000	MPa	
120°C	9200	MPa	
150°C	6000	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	195	MPa	
Break, 60°C	180	MPa	
Break, 90°C	150	MPa	
Break, 120°C	110	MPa	
Break, 150°C	85.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.7	%	
Break, 60°C	1.7	%	
Break, 90°C	2.6	%	
Break, 120°C	3.0	%	
Break, 150°C	3.3	%	
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)	40	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	280	°C	ISO 75-2/B
1.8 MPa, Unannealed	260	°C	ISO 75-2/A
Continuous Use Temperature ²	220	°C	
Vicat Softening Temperature	260	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	6.0E-6	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	125	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	
Oxygen Index	44	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	110 to 130	°C	
Drying Time	3.0	hr	
Suggested Max Regrind	15	%	
Processing (Melt) Temp	290 to 310	°C	
Mold Temperature	130 to 140	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	60 MPa		
2.	20,000 hr		

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