

Larton L G/40

Polyphenylene Sulfide

LATI S.p.A.

Message:

Compound based on Linear Polyphenylene Sulphide (L-PPS).

UL94 V-0 classified, halogens free. Glass fibres. Product UL certified.

Very good chemical resistance. Very good thermal resistance. Low smoke toxicity index and optical density.

General Information	
UL YellowCard	E54080-509412
Filler / Reinforcement	Glass Fiber,40% Filler by Weight
Features	Good Chemical Resistance
	Halogen Free
	High Heat Resistance
	Low Optical Density
	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	0.50 to 0.70	%	
Flow : 2.00 mm	0.25 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	17000	MPa	
60°C	15000	MPa	
90°C	12000	MPa	
120°C	8400	MPa	
150°C	7200	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	160	MPa	
Break, 60°C	140	MPa	
Break, 90°C	120	MPa	
Break, 120°C	90.0	MPa	
Break, 150°C	70.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.2	%	
Break, 60°C	1.3	%	
Break, 90°C	1.8	%	
Break, 120°C	2.2	%	
Break, 150°C	2.5	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	30	kJ/m ²	ISO 179/1eU
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	280	°C	ISO 75-2/B
1.8 MPa, Unannealed	270	°C	ISO 75-2/A
Continuous Use Temperature ²	200	°C	
Vicat Softening Temperature	255	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	6.0E-6	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.750 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	110 to 130	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	290 to 310	°C	
Mold Temperature	130 to 140	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		

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