

Larton GCE/600

Polyphenylene Sulfide

LATI S.p.A.

Message:

Polyphenylene Sulphide (PPS) based compound.

Glass fibres / Mineral filler. Intrinsically flame retardant. Very good chemical resistance. Very good thermal properties. Low smoke density and low toxicity index.

General Information			
Features	Flame Retardant		
	Good Chemical Resistance		
	Low Smoke Emission		
Physical	Nominal Value	Unit	Test Method
Density	1.85	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.15 to 0.30	%	
Flow : 2.00 mm	0.10 to 0.25	%	
Water Absorption (23°C, 24 hr)	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	18500	MPa	
60°C	18000	MPa	
90°C	17000	MPa	
120°C	11500	MPa	
150°C	9100	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	165	MPa	
Break, 60°C	145	MPa	
Break, 90°C	125	MPa	
Break, 120°C	100	MPa	
Break, 150°C	85.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	0.90	%	
Break, 60°C	1.0	%	
Break, 90°C	1.1	%	
Break, 120°C	1.7	%	
Break, 150°C	2.5	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.0	kJ/m ²	

23°C	6.0	kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU	
-20°C	20	kJ/m ²	
23°C	20	kJ/m ²	
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	220	°C	
Vicat Softening Temperature	255	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	5.0E-6	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	150	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	45	%	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 330	°C	
Mold Temperature	130 to 140	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	60 MPa		
2.	20,000 hr		

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