

Larton K/30

Polyphenylene Sulfide

LATI S.p.A.

Message:

Compound based on Polyphenylene Sulphide (PPS).
UL94 V-0 classified, halogens free. Carbon fibre.
Very good chemical resistance. Very good thermal resistance. Low smoke toxicity index and optical density.

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Good Chemical Resistance		
	Halogen Free		
	High Heat Resistance		

Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.15 to 0.25	%	
Flow : 2.00 mm	0.10 to 0.20	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	25000	MPa	
60°C	23500	MPa	
90°C	21000	MPa	
120°C	15000	MPa	
150°C	11000	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	185	MPa	
Break, 60°C	165	MPa	
Break, 90°C	130	MPa	
Break, 120°C	85.0	MPa	
Break, 150°C	70.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	0.80	%	
Break, 60°C	0.90	%	
Break, 90°C	1.3	%	
Break, 120°C	1.6	%	
Break, 150°C	1.8	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	25	kJ/m ²	ISO 179/1eU

Notched Izod Impact (23°C, 3.20 mm)	40	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	225	°C	
Vicat Softening Temperature	255	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	2.0E-6	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+2	ohms	ASTM D257
Volume Resistivity	6.0E+3	ohms · cm	ASTM D257
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		
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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