

Larton K/40 HM

Polyphenylene Sulfide

LATI S.p.A.

Message:

Compound based on Polyphenylene Sulphide (PPS).

Carbon fibre. High modulus.

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

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	Good Chemical Resistance		
	High Stiffness		
Physical	Nominal Value	Unit	Test Method
Density	1.50	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 (23°C)	45000	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	175	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	0.40	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	50	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)	1.0E-6	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	50	ohms	ASTM D257
Volume Resistivity	1.0E+2	ohms · cm	ASTM D257
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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