

Larton K/20

Polyphenylene Sulfide

LATI S.p.A.

Message:

Compound based on Polyphenylene Sulphide (PPS).

Carbon fibre.

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

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Features	Good Chemical Resistance		
	High Heat Resistance		
	Low Optical Density		
	Low Smoke Emission		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.20 to 0.30	%	
Flow : 2.00 mm	0.10 to 0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	17000	MPa	
60°C	16000	MPa	
90°C	15000	MPa	
120°C	10500	MPa	
150°C	7200	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	150	MPa	
Break, 60°C	135	MPa	
Break, 90°C	105	MPa	
Break, 120°C	70.0	MPa	
Break, 150°C	50.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.0	%	
Break, 60°C	1.1	%	
Break, 90°C	1.6	%	
Break, 120°C	2.0	%	
Break, 150°C	2.3	%	
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)	18	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	265	°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)	4.0E-6	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3	ohms	ASTM D257
Volume Resistivity	1.0E+4	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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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