Lasulf LASULF G/20

Polysulfone

LATI S.p.A.

Message:

Compound based on Polysulphone (PSU).
UL94 V-0 classified, halogens free. Glass fibres.
Low smoke toxicity index and optical density. Very high dimensional stability. Low thermal expansion coefficient. Very high thermal resistance.

General Information	
Filler / Reinforcement	Glass Fiber,20% Filler by Weight
Features	Good Dimensional Stability
	Halogen Free
	High Heat Resistance
	Low Optical Density
	Low Smoke Emission

Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm³	ISO 1183
Molding Shrinkage [1]			ISO 294-4
Across Flow : 2.00 mm	0.60 to 0.80	%	
Flow : 2.00 mm	0.15 to 0.35	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-2/1
23°C	6000	MPa	
60°C	5800	MPa	
90°C	5600	MPa	
120°C	5500	MPa	
150°C	5200	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	110	MPa	
Break, 60°C	105	MPa	
Break, 90°C	95.0	MPa	
Break, 120°C	85.0	MPa	
Break, 150°C	70.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	3.0	%	
Break, 60°C	2.6	%	
Break, 90°C	2.5	%	
Break, 120°C	2.3	%	
Break, 150°C	2.2	%	
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength (23°C)	8.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	30	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	65	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	185	°C	ISO 75-2/B
1.8 MPa, Unannealed	180	°C	ISO 75-2/A
Continuous Use Temperature [2]	160	°C	
Vicat Softening Temperature	185	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	1.0E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Comparative Tracking Index [3] (Solution A)	125	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.50 mm	V-1		
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	38	%	ASTM D2863
Injection	**Nominal Value**	**Unit**	
Drying Temperature	110 to 130	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	300 to 330	°C	
Mold Temperature	120 to 140	°C	
Injection Rate	Fast		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		
3.	Without Surfactant		

Recommended distributors for this material

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