

Luran® 378P G10

Styrene Acrylonitrile

Styrolution

Message:

Luran 378P G10 is a glass fiber-reinforced grade (50% GF) of SAN with extremely high stiffness and very low thermal coefficient of linear expansion. It features good chemical and weathering resistance and is suitable for extrusion and injection molding.

General Information	
Filler / Reinforcement	Glass Fiber,50% Filler by Weight
Features	Good Chemical Resistance
	Good Dimensional Stability
	Good Weather Resistance
	High Strength
	Ultra High Stiffness
Uses	Machine/Mechanical Parts
	Windows & Doors
Forms	Pellets
Processing Method	Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	2.50	cm ³ /10min	ISO 1133
Molding Shrinkage	0.10	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	91		
Ball Indentation Hardness	276	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16500	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	0.80	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	5.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
-30°C	11	kJ/m ²	
23°C	11	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	6.0	kJ/m ²	

23°C	5.0	kJ/m ²	
Unnotched Izod Impact Strength	14	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	108	°C	ISO 75-2/B
1.8 MPa, Annealed	104	°C	ISO 75-2/A
Vicat Softening Temperature	111	°C	ISO 306/B50
CLTE - Flow	1.6E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.25	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Dielectric Constant (100 Hz)	4.00		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	7.4E-3		
1 MHz	0.011		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	60.0 to 70.0	°C	
Injection Velocity	200	mm/sec	

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