

Luran® 378P G7

Styrene Acrylonitrile
Styrolution

Message:

Luran 378P G7 is a glass fiber-reinforced grade (35% GF) of SAN with very high stiffness and low thermal coefficient of linear expansion. It features good chemical and weathering resistance and is suitable for extrusion and injection molding.

General Information			
UL YellowCard	E108538-100840248		
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Weather Resistance		
	High Stiffness		
	High Strength		
	Medium Heat Resistance		
Uses	Machine/Mechanical Parts		
	Windows & Doors		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)		
	Isochronous Stress vs. Strain (ISO 11403-1)		
	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Apparent Density ¹	0.85	g/cm ³	
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	4.00	cm ³ /10min	ISO 1133
Molding Shrinkage	0.10	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.25	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	93		

Ball Indentation Hardness	240	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	110	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Tensile Creep Modulus			ISO 899-1
1 hr	9500	MPa	
1000 hr	7500	MPa	
Flexural Stress	150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength			ISO 179
-30°C	17	kJ/m ²	
23°C	17	kJ/m ²	
Notched Izod Impact Strength			ISO 180/A
-30°C	4.0	kJ/m ²	
23°C	4.0	kJ/m ²	
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	109	°C	ISO 306/B50
CLTE - Flow	2.5E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.22	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)	3.50		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	7.0E-3		
1 MHz	0.010		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	80.0	°C	
Injection Velocity	200	mm/sec	
NOTE			
1.	With external lubricant		

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