

Luran® 378P G10

SAN-GF50

INEOS Styrolution

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.

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	2.5	cm³/10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	16500	MPa	ISO 527
Stress at Break	120	MPa	ISO 527
Strain at Break	0.8	%	ISO 527
Impact Strength (Charpy), +23°C	11	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	11	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	5	kJ/m²	ISO 179/1eA

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	104	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	108	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	111	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	16	E-6/K	ISO 11359-1/-2

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Dissipation Factor, 100Hz	74	E-4	IEC 62631-2-1
Dissipation Factor, 1MHz	106	E-4	IEC 62631-2-1
Volume Resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface Resistivity	>1E15	Ohm	IEC 62631-3-2

Other Properties	Value	Unit	Test Standard
ISO Data			
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1500	kg/m³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	250	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	220 - 260	°C	-
Mold temperature	60 - 70	°C	-

Characteristics**Processing**

Injection Molding, Profile Extrusion, Other Extrusion

Delivery form

Pellets

Injection Molding**PREPROCESSING**

Pre-drying, Temperature: 80 °C

Pre-drying, Time: 4 h

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PROCESSING

injection molding, Melt temperature, range: 220 - 260 °C

injection molding, Melt temperature, recommended: 250 °C

injection molding, Mold temperature, range: 60 - 70 °C

injection molding, Mold temperature, recommended: 70 °C
