

LUBEXAN GF40 NATURAL

Polycarbonate
LUBEN PLAST srl

Message:
Compound based on Polycarbonate. Second choice. With glass fibres 40%.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Density	1.43 to 1.47	g/cm ³	ISO 1183/A
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000 to 9500	MPa	ISO 527-2/1A/1
Tensile Stress			ISO 527-2/1A/5
Yield	105 to 115	MPa	
Break	105 to 115	MPa	
Tensile Strain			ISO 527-2/1A/5
Yield	1.0 to 1.5	%	
Break	1.0 to 1.5	%	
Flexural Modulus ¹	6300 to 6800	MPa	ISO 178
Flexural Stress ²	175 to 185	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0 to 14	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50 to 60	kJ/m ²	ISO 179/1eU
Notched Izod Impact			
23°C, 3.20 mm	140 to 150	J/m	ASTM D256A
23°C ³	45 to 55	kJ/m ²	ASTM D256
23°C	8.0 to 14	kJ/m ²	ISO 180/A
23°C ⁴	14 to 15	kJ/m ²	ASTM D256
Unnotched Izod Impact Strength (23°C)	50 to 60	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	135 to 145	°C	ASTM D648
0.45 MPa, Unannealed	140 to 150	°C	ISO 75-2/B
1.8 MPa, Unannealed, 3.20 mm	125 to 135	°C	ASTM D648
Glass Transition Temperature	140 to 150	°C	Internal Method
Vicat Softening Temperature			
--	145 to 155	°C	ISO 306/A120
--	135 to 145	°C	ISO 306/B120
NOTE			

1.	2.0 mm/min
2.	2.0 mm/min
3.	Notch E
4.	Notch A

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