

STRATOR® C-4

Thermoplastic
EPIC Polymers

Message:

STRATOR®C- 4 is a thermoplastic product that contains 40% long glass fibers as filler. It is available in Europe. The main characteristics are: high strength.

General Information				
Filler / Reinforcement		Long glass fiber, 40% filler by weight		
Features		High strength		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.50	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.30	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
--	--	11000	MPa	ISO 527-2
23°C	13000	--	MPa	ISO 527-2
90°C	8800	--	MPa	ISO 527-2
120°C	7800	--	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Fracture, 23°C	220	190	MPa	ISO 527-2
Fracture, 90°C	145	--	MPa	ISO 527-2
Fracture, 120°C	125	--	MPa	ISO 527-2
Tensile Strain (Break)	2.2	--	%	ISO 527-2
Flexural Modulus (23°C)	10900	--	MPa	ISO 178
Flexural Stress (23°C)	330	270	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	30	35	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	70	90	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	245	--	°C	ISO 75-2/B
1.8 MPa, not annealed	237	--	°C	ISO 75-2/A
CLTE - Flow	2.3E-5	--	cm/cm/°C	ISO 7991
Thermal Conductivity	0.33	--	W/m/K	ISO 22007
Electrical	Dry	Conditioned	Unit	Test Method

Surface Resistivity	1.0E+12	--	ohms	ASTM D257
Dielectric Strength (2.00 mm)	35	--	kV/mm	IEC 60243-1
Comparative Tracking Index	500	--	V	IEC 60112

Additional Information

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The value listed as Molding Shrinkage ISO 294-4, was tested in accordance with S.O.P. methods.

Injection	Dry	Unit
Drying Temperature	110	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	270 - 300	°C
Middle Temperature	270 - 300	°C
Front Temperature	285 - 310	°C
Nozzle Temperature	285 - 320	°C
Processing (Melt) Temp	< 310	°C
Mold Temperature	80.0 - 160	°C

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