

Strator® B-4

Polyamide 6

EPIC Polymers

Message:

STRATOR® B-4 is a Polyamide 6 (Nylon 6) product filled with 40% long glass fiber. It is available in Europe.

General Information				
Filler / Reinforcement		Long Glass Fiber,40% Filler by Weight		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.46	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.28	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.6	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
23°C	14500	9200	MPa	
90°C	8500	--	MPa	
120°C	8200	--	MPa	
Tensile Stress				ISO 527-2
Yield, 23°C	215	150	MPa	
Yield, 90°C	120	--	MPa	
Yield, 120°C	100	--	MPa	
Tensile Strain (Break, 23°C)	2.4	2.7	%	ISO 527-2
Flexural Modulus (23°C)	12000	8200	MPa	ISO 178
Flexural Stress (23°C)	300	190	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	28	35	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	90	100	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	220	--	°C	ISO 75-2/A
CLTE - Flow (23°C)	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
Electric Strength	34	--	kV/mm	IEC 60243-1

Comparative Tracking Index	500	--	V	IEC 60112
Injection	Dry	Unit		
Drying Temperature	110		°C	
Drying Time	4.0		hr	
Suggested Max Moisture	0.10		%	
Rear Temperature	240 to 280		°C	
Middle Temperature	250 to 290		°C	
Front Temperature	260 to 310		°C	
Nozzle Temperature	270 to 320		°C	
Processing (Melt) Temp	< 320		°C	
Mold Temperature	80.0 to 130		°C	

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