Strator® C-5

Polyamide 66

EPIC Polymers

Message:

STRATOR®C- 5 is a thermoplastic product that contains 50% long glass fibers as filler. It is available in Europe. The main characteristics are: high strength.

General Information				
Filler / Reinforcement	Long glass fiber, 50% filler by weight			
Features	High strength			
Forms	Particle			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.60	--	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.20	--	%	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
23°C	18000	14000	MPa	ISO 527-2
90°C	10500	--	MPa	ISO 527-2
120°C	8500	--	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Fracture, 23°C	260	205	MPa	ISO 527-2
Fracture, 90°C	210	--	MPa	ISO 527-2
Fracture, 120°C	140	--	MPa	ISO 527-2
Tensile Strain (Break)	2.2	--	%	ISO 527-2
Flexural Modulus (23°C)	15500	12000	MPa	ISO 178
Flexural Stress (23°C)	415	325	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	35	36	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	81	100	kJ/m²	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	2.0E-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)	36	--	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

Recommended distributors for this material

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