

Strator® A-4 XC

Polyamide 66

EPIC Polymers

Message:

STRATOR® A-4 XC is a Polyamide 66 (Nylon 66) product filled with 40% long carbon fiber. It can be processed by injection molding and is available in Europe.

General Information			
Filler / Reinforcement	Long Carbon Fiber,40% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.25	%	Internal Method
Water Absorption (Equilibrium, 23°C, 50% RH)	1.7	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	38000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	320	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	1.4	%	ISO 527-2
Flexural Modulus (23°C)	36000	MPa	ISO 178
Flexural Stress (23°C)	450	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	255	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	270 to 300	°C	
Middle Temperature	270 to 300	°C	
Front Temperature	285 to 310	°C	
Nozzle Temperature	285 to 320	°C	
Processing (Melt) Temp	310	°C	
Mold Temperature	80.0 to 170	°C	

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