

STAR-THERM® E A-3C

Polyamide 66

EPIC Polymers

Message:

STAR-THERM® E A-3C is a Polyamide 66 (Nylon 66) product filled with 30% carbon fiber. It is available in Europe.

Characteristics include:

Conductive

Lubricated

General Information				
Filler / Reinforcement		Carbon Fiber,30% Filler by Weight		
Additive		Lubricant		
Features		Electrically Conductive		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.28	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.20	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.8	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
23°C	21000	16500	MPa	
90°C	14000	--	MPa	
120°C	10000	--	MPa	
Tensile Stress				ISO 527-2
Break, 23°C	260	200	MPa	
Break, 90°C	150	--	MPa	
Break, 120°C	125	--	MPa	
Tensile Strain (Break, 23°C)	2.0	3.0	%	ISO 527-2
Flexural Modulus (23°C)	19000	15000	MPa	ISO 178
Flexural Stress (23°C)	370	285	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	40	--	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	255	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	253	--	°C	ISO 75-2/A
CLTE - Flow	2.1E-5	--	cm/cm/°C	ISO 7991
Thermal Conductivity	0.51	--	W/m/K	ISO 22007

Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+2	--	ohms	IEC 60093
Injection	Dry	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 160		°C	

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