

STAR-THERM® E B-2C

Polyamide 6
EPIC Polymers

Message:

STAR-THERM® E B-2C is a Polyamide 6 (Nylon 6) product filled with 20% carbon fiber. It is available in Europe.

General Information			
Filler / Reinforcement	Carbon Fiber,20% Filler by Weight		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.30	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	2.4	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	12500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	195	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2
Flexural Modulus (23°C)	11000	MPa	ISO 178
Flexural Stress (23°C)	285	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	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	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	°C	ISO 75-2/A
CLTE - Flow (23°C)	2.6E-5	cm/cm/°C	ISO 7991
Thermal Conductivity	0.50	W/m/K	ISO 22007
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3	ohms	ASTM D257
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	240 to 300	°C	
Cylinder Zone 2 Temp.	250 to 300	°C	
Cylinder Zone 3 Temp.	260 to 310	°C	
Cylinder Zone 4 Temp.	260 to 320	°C	

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