

STAR-THERM® E A-4C

Polyamide 66

EPIC Polymers

Message:

STAR-THERM® E A-4C is a Polyamide 66 (Nylon 66) product filled with 40% carbon fiber. It is available in Europe.

General Information				
Filler / Reinforcement		Carbon Fiber,40% Filler by Weight		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.34	--	g/cm ³	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	25000	18500	MPa	
90°C	17000	--	MPa	
120°C	12000	--	MPa	
Tensile Stress				ISO 527-2
Yield, 23°C	295	230	MPa	
Yield, 90°C	180	--	MPa	
Yield, 120°C	155	--	MPa	
Tensile Strain (Break, 23°C)	2.0	3.0	%	ISO 527-2
Flexural Modulus (23°C)	22000	17000	MPa	ISO 178
Flexural Stress (23°C)	390	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 (23°C)	1.9E-5	--	cm/cm/°C	ISO 7991
Thermal Conductivity	0.55	--	W/m/K	ISO 22007
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+2	--	ohms	ASTM D257
Extrusion	Dry	Unit		

Cylinder Zone 1 Temp.	270 to 300	°C
Cylinder Zone 2 Temp.	270 to 300	°C
Cylinder Zone 3 Temp.	285 to 310	°C
Cylinder Zone 4 Temp.	285 to 320	°C

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