

STAR-THERM® E T-3C

Polybutylene Terephthalate

EPIC Polymers

Message:

STAR-THERM® E T-3C is a Polybutylene Terephthalate (PBT) product filled with 30% carbon fiber. It is available in Europe. Primary characteristic: conductive.

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Electrically Conductive		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.20	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2
23°C	18000	MPa	
90°C	11000	MPa	
120°C	9500	MPa	
Tensile Stress			ISO 527-2
Break, 23°C	170	MPa	
Break, 90°C	110	MPa	
Break, 120°C	80.0	MPa	
Tensile Strain (Break, 23°C)	2.0	%	ISO 527-2
Flexural Modulus (23°C)	16000	MPa	ISO 178
Flexural Stress (23°C)	230	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	35	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
CLTE - Flow	1.8E-5	cm/cm/°C	ISO 7991
Thermal Conductivity	0.55	W/m/K	ISO 22007
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	ohms	IEC 60093
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	4.0	hr	

Suggested Max Moisture	0.020	%
Rear Temperature	220 to 240	°C
Middle Temperature	220 to 260	°C
Front Temperature	230 to 260	°C
Nozzle Temperature	240 to 270	°C
Processing (Melt) Temp	< 270	°C
Mold Temperature	60.0 to 110	°C

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