

STAR-THERM® E TA 10-2C

Polyphthalamide
EPIC Polymers

Message:

STAR-THERM® E TA 10-2C is a Polyphthalamide (PPA) product filled with 20% carbon fiber. It is available in Europe. Primary characteristic: conductive.

General Information				
Filler / Reinforcement		Carbon Fiber,20% Filler by Weight		
Features		Electrically Conductive		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.26	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.25	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	15200	14600	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	210	200	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0	--	%	ISO 527-2
Flexural Modulus (23°C)	14500	13700	MPa	ISO 178
Flexural Stress (23°C)	300	285	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	6.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	30	30	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	300	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	285	--	°C	ISO 75-2/A
CLTE - Flow	2.1E-5	--	cm/cm/°C	ISO 7991
Thermal Conductivity	0.45	--	W/m/K	ISO 22007
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+3	--	ohms	IEC 60093
Injection	Dry	Unit		
Drying Temperature	120		°C	
Drying Time	4.0		hr	
Suggested Max Moisture	0.080		%	
Rear Temperature	320 to 340		°C	
Middle Temperature	320 to 335		°C	
Front Temperature	320 to 335		°C	

Nozzle Temperature	325 to 340	°C
Processing (Melt) Temp	< 340	°C
Mold Temperature	135 to 165	°C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

