

Matreial Data Sheet

技术数据表

NFD Composite Material (Jiangsu) Co., Ltd

Tepla® T2000 CF ES

Material Description:

Rear Temperature

Tepla ® T2000 CF ES is a Polyphenylene Sulfide (PPS) product filled with carbon fiber. Characteristics include: Antistatic, Good Rigidity, Flame Retardant.

General				
Material Status	 Commercial: Active 			
	Asia Pacific		 North America 	
Availability	Europe		 Latin America 	
	Middle East		 Africa 	
Filler/Reinforcement	Carbon Fiber			
	Antistatic		Flame Retardant	
-	 Good Dimensional Stability 	/	Creep Resistant	
Features	Low Moisture Absorption		ESD Protection	
	Good Rigidity			
Appearance	Black		Natural Color	
Forms	Pellets			
RoHS Compliance	Contact Manufacturer			
Processing Method	Injection Molding			
Troccoming Weethed	injection meraling			
Physical Properties	Typical Value			Test Method
Density/Specific Gravity	1.37	g/cm ³		ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.1 to 0.3	%		ASTM D955
Water Absorption (24 hr, 23°C)	0.02			ASTM D570
Tracer resembles (2 m, 200)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Mechanical Properties	Typical Value	Unit		Test Method
Tensile Modulus	8700	MPa		ASTM D638
Tensile Strength	92	MPa		ASTM D638
Tensile Elongation (Break)	1.6	%		ASTM D638
Flexural Modulus	7850	MPa		ASTM D790
Flexural Strength	144	MPa		ASTM D790
Impact Properties	Typical Value	Unit		Test Method
Notched Izod Impact(3.18mm)		J/m		ASTM D256
Unnotched Izod Impact(3.18mm)		J/m		ASTM D230
Officiela izoa impaci(3.16mm)	104	J/III		A31WI D4612
Flammability	Typical Value	Unit		Test Method
Flame Rating(1.6mm)	V-0			UL 94
Electrical Properties	Typical Value			Test Method
Surface Resistivity	1.00E+06			ASTM D257
Volume Resistivity	1.00E+03	ohms·cm		ASTM D257
Thermal Properties	Typical Value	Unit		Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	260	$^{\circ}$ C		=
1.8 MPa, Unannealed	232	$^{\circ}$		
CLTE - Flow	2.70E-05	cm/cm/℃		ASTM D696
Processing Information	Typical Value	Unit		
Drying Temperature	Typical value	°C		
Drying Time Suggested Max	6 20	hr %		
Suggested Iviax	205 +- 242	90		

285 to 343

Middle Temperature 285 to 343	$^{\circ}\!\mathrm{C}$
Front Temperature 285 to 343	${\mathbb C}$
Mold Temperature 66 to 177	$^{\circ}\!$
Injection Pressure 68.9 to 103	MPa
Back Pressure 0.345 to 0.689	MPa
Screw Speed 60 to 90	rpm
Clamp Tonnage 1.4	kN/cm ²

Additional Information

Volume Resistivity, ASTM D257: 10E3 -10E9 ohm-cm Surface Resistivity, ASTM D257: 10E6 -10E12 ohm/sq Static Decay, FTMS-4046.1, Mil B-81705C: <2.0 seconds

NFD ADVANCED COMPOSITES

Tepla® T2000 CF ES

CAUTION/警告!

Before using, read the Molding Guide, Material Safety Data Sheets, and Bulletins available from NFD Advanced Composites Sales offices and Distributors supplied to your company. Caution! During drying, purging and molding, small amounts of hazardous gases and/or particulate matter may be released. These may irritate eyes, nose and throat. Use adequate local exhaust ventilation during thermal processing. To prevent resin decomposition, do not contaminate the resin or exceed the recommended melt temperature or hold-up time. Avoid inhalation or skin and eyes contact. Sweep up and dispose of spilled resin to eliminate slipping hazard. 在使用之前,请阅读NFD公司销售办事处和经销商提供给贵公司的材料成型指南、材料安全数据表和公告。警告!在干燥、吹扫和成型过程中,少量有害气体或颗粒物质可能会在被释放,这些可能会刺激眼睛,鼻子和喉咙。热处理过程中请注意做好排气通风工作。为防止树脂分解,请勿污染树脂或超过我们为您推荐的熔融温度或时间。请避免吸入或与皮肤、眼睛等接触。清扫和处理溢出的树脂,以消除滑到的危险。

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The figures indicated here are approximate values. They may be affected by different factors, and the user is not released therefore from the obligation of performing checks and trials of his own. The values indicated here have been compiled on the basis of current tests and findings. Any legally binding guarantee of certain properties, or any suitability for a specific application can not be inferred from the present data. For detailed production regulatory information, contact customer service

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