

Matreial Data Sheet

技术数据表

NFD Composite Material (Jiangsu) Co., Ltd

Tepla® T8000 CF EC

Material Description:

Tepla ® T8000 CF EC is a compound based on Polyetherimide(PEI) resin containing Carbon Fiber. Added features of this material include: Electrically Conductive.

General				
Material Status	 Commercial: Active 			
	Asia Pacific		North America	
Availability	• Europe		Latin America	
	Middle East		Africa	
Filler/Reinforcement	Carbon Fiber			
	Electrically Conductive		Good Mechanical Properties	
Factoria.	Heat Resistant		Low Temperature Resistant	
Features	Fatigue Resistant		Creep Resistant	
	Flame Retardant		High Strength	
Applications	Hospital Goods		Aircraft Applications	
	Industrial Applications		Medical Devices	
	Connectors		Medical/Healthcare Applications	
	Dental Applications		Electrical/Electronic Applications	
RoHS Compliance	RoHS Compliant		• •	
Processing Method	 Injection Molding 			
		11. 2	= . M d	
Physical Properties	Typical Value		Test Method	
Specific Gravity	1.39	g/cm ³	ASTM D792	
Melt Mass-Flow Rate (MFR)	10	g/10min	ASTM D1238	
(380°C/6.7 kg)				
Mold Shrinkage	0.00 0.1	0/	ASTM D955	
Flow, 24 hrs	0.03 to 0.1			
Across Flow, 24 hrs	0.1 to 0.6	%		
Mechanical Properties	Typical Value	Unit	Test Method	
Tensile Modulus, 5 mm/min	29400	MPa	ASTM D638	
Tensile Modulus	28000	MPa	ISO 527-2/1	
Tensile Strength, break, Type I				
5.0 mm/min	260	MPa	ASTM D638	
Tensile Elongation, break, Type I		.,		
5.0 mm/min	1.3	%	ASTM D638	
Tensile Stress, break	262	MPa	ISO 527-2/5	
Tensile Strain, break	1.3		ISO 527-2/5	
Flexural Modulus, 1.3 mm/min				
50.0 mm Span	23000	МРа	ISO 178	
Flexural Modulus				
2 mm/min	22100	MPa	ASTM D790	
Flexural Strength, break				
1.3 mm/min,50.0 mm Span	350	MPa	ASTM D790	
Flexural Stress	347	MPa	ISO 178	
Compressive Strength	236	MPa	NFD Method	
.t	200	#	2	
Impact Properties	Typical Value	Uni <u>t</u>	Test Method	
Notched Izod Impact, 23℃		J/m	ASTM D256	
Unnotched Izod Impact, 23°C	577	J/m	ASTM D4812	
Notched Izod Impact				
NOTCHED IZOG IIIIpact		11/6	107 100 / 1 / 1	
	7.5	kJ/m ²	ISO 180/1A	
80*10*4, 23°C Unnotched Izod Impact		KJ/M	ISO 160/1A	

Thermal Properties	Typical Value Unit	Test Method
Deflection Temperature Under Load		
1.82MPa, Unannealed, 3.2mm	198 ℃	ASTM D648
/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	198 ℃	ISO 75/Af

Processing Information Typical Value	Unit
Maximum Moisture Content 0.02	%
Melt Temperature 380 to 400	$^{\circ}\!\mathbb{C}$
Mold Temperature 166 to 180	$^{\circ}\!\mathbb{C}$
Drying Temperature 120 to 150	$^{\circ}\!\mathbb{C}$
Drying Time 4	hr
Front Temperature 380 to 400	$^{\circ}\!\mathbb{C}$
Middle Temperature 380 to 400	$^{\circ}$
Rear Temperature 380 to 400	$^{\circ}\!\mathbb{C}$
Back Pressure 0.3 to 0.7	MPa
Screw Speed 50 to 100	rpm

NFD ADVANCED COMPOSITES

Tepla® T8000 CF EC

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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