

Matreial Data Sheet

技术数据表

NFD Composite Material (Jiangsu) Co., Ltd

Tepla® T8220CF

Material Description:

Tepla® T8220CF is an injection moldable thermoplastic polyimide(TPI) with superior heat and chemical resistance. Carbon fiber reinforced grades provide outstanding strengths and stiffness.

General				
Material Status	 Commercial: Active 			
	Asia Pacific		 North America 	
Availability	• Europe		 Latin America 	
	Middle East		Africa	
Filler/Reinforcement	• Carbon Fiber, 20% Filler by	Weight		
	Chemical Resistant		High Heat Resistance	
Features	Good Stiffness		High Strength	
RoHS Compliance	Contact Manufacturer			
•	Colors Available		Natural Color	
Appearance	Black			
Forms	Pellets			
Processing Method	Injection Molding			
Physical Properties	Typical Value	Unit		Test Method
Density/Specific Gravity	1.35			ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.02 to 0.1	%		ASTM D955
Water Absorption (24 hr)	0.12	%		ASTM D570
Hardness	Typical Value	Unit		Test Method
Rockwell Hardness (R-Scale)	127			ASTM D785
Mechanical Properties	Typical Value			Test Method
Tensile Modulus	17000	MPa		ASTM D638
Tensile Strength	200			ASTM D638
Yield		MPa		
		MPa		
Tensile Elongation (Break)	2	%		ASTM D638
Flexural Modulus	16000	MPa		ASTM D790
Flexural Strength	070			ASTM D790
		MPa		
Yield	270	MPa		
Improst Duopoution	Typical Value	1 lade		Toot Mothod
Impact Properties	Typical Value			Test Method
Notched Izod Impact (3.18 mm)	79	J/m		ASTM D256
Unnotched Izod Impact (3.18 mm)	610	J/m		ASTM D4812
Flammability	Typical Value	Unit		Test Method
Flame Rating (1.5 mm)	V-0	Onit		UL 94
Traine Rating (1.5 mm)	V-0			OL 34
Thermal Properties	Typical Value	Unit		Test Method
Deflection Temperature Under Load				
1.8MPa, Unanneale	316	$^{\circ}$		ASTM D648
Injection	Typical Value	Unit		
Rear Temperature	371 to 415	$^{\circ}$		
Middle Temperature	371 to 415	$^{\circ}$		
Front Temperature	371 to 415	$^{\circ}$		
Mold Temperature	178 to 232	$^{\circ}\!\mathbb{C}$		

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 7mil/in.

NFD ADVANCED COMPOSITES

Tepla® T8220CF

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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