

Matreial Data Sheet

NFD Composite Material (Jiangsu) Co., Ltd

Tepla® T8020GF 10TF

Material Description:

Screw Speed

Front Temperature

Tepla® T8020GF 10TF is a compound to of this grade include: Wear Resistant, Ex		esin containing 20% G	lass Fiber, 10% PTFE. Added features
General	ooptional Froodsamg.		
Material Status	Commercial: Active		
	Asia Pacific	• No	orth America
Availability	• Europe		itin America
, wandomey	Middle East		frica
Filler/Reinforcement	Glass Fiber, 20% Filler by W		1100
Additive	• PTFE Lubricant:10%	cigiti	
Additive	Wear Resistant	• G	ood Machinability
Features	Lubricated	- 00	300 Watimability
	Aircraft Applications	• C	onsumer Applications
Applications			dustrial Applications
DoUS Compliance	Automotive Applications Pauls Compliant		dustrial Applications
RoHS Compliance	RoHS Compliant Injection Molding		
Processing Method	Injection Molding		
Physical Properties	Typical Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Molding Shrinkage (Flow, 3.2mm)	0.2 to 0.3	%	NFD Method
Water Absorption (24 hr, 50% RH)	0.18	%	ASTM D570
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Mechanical Properties	Typical Value	Unit	Test Method
Tensile Strength, yield, Type I	145	MPa	ASTM D638
5.0 mm/min		0/	
Tensile Elongation, break	2.3	%	ISO 527-2/5
Flexural Modulus, 1.3 mm/min	6800	MPa	ASTM D790
50.0 mm Span			
Flexural Strength, break, 1.3 mm/min	197	MPa	ASTM D790
50.0 mm Span			
Coefficient of Friction			ASTM D3702 Modified
Dynamic	0.43		
Static	0.41		
Wear Factor - Washer	154	10^-10 in^5-min/f	t- ASTM D3702 Modified
vvedi i detoi vvasiiei	101	lb-hr	Notivi Bot oz Wedined
Electrical Properties	Typical Value	Unit	Test Method
Surface Resistivity	1.00E+16	Ohm	ASTM D257
Surface Resistivity	1.001 10	Offili	ASTIVI DZSI
Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load	213	%	ASTM D648
0.45MPa, Unannealed, 3.20mm	213		A31W D046
Processing Information	Typical Value	Unit	
Back Pressure	Typical Value 0.344 to 0.689	Unit MPa	
Melt Temperature	360 to 365	°C	
Mold Temperature	120 to 150	°C	
Drying Temperature	120 to 150	°C	
Drying Temperature Drying Time	4 to 6	hr	
	0.02	%	
Suggested Max Moisture	0.02 60 to 100	70	

365 to 378

60 to 100 rpm

Middle Temperature	355 to 365 ℃	
Rear Temperature	342 to 355 ℃	

NFD ADVANCED COMPOSITES

Tepla® T8020GF 10TF

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。

LEGAL NOTICES/法律声明

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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CONTACT:

CHINA/JIANG SU 江苏新孚达复合材料有限公司 NFD Composite Material (Jiangsu) Co., Ltd Email:yanghui@nfdpla.com Internet:www.nfdpla.com

