

Matreial Data Sheet

技术数据表

NFD Composite Material (Jiangsu) Co., Ltd

Tepla® T2055CF

Material Description:

Tepla ® T2055CF is a Polyphenylene Sulfide (PPS) product filled with 55% carbon fiber. Characteristics include: Wear Resistant, Antistatic, Good Rigidity.

General			
Material Status	 Commercial: Active 		
Availability	Asia Pacific	North America	
	• Europe	 Latin America 	
	Middle East	 Africa 	
Filler/Reinforcement	 Carbon Fiber, 55% Filler by 	Weight	
	High Heat Resistance	 Flame Retardar 	
Features	 Good Dimensional Stability 	, I	t
	 Low Moisture Absorption 	 Wear Resistant 	
	 Good Rigidity 	 Antistatic 	
Appearance	Black	 Natural Color 	
Forms	 Pellets 		
RoHS Compliance	Contact Manufacturer		
Processing Method	 Injection Molding 		
Physical Properties	Typical Value	Unit	Test Method
Density/Specific Gravity	1.54	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.05		ASTM D955
Water Absorption (24 hr, 23°C)	0.02		ASTM D570
Water Absorption (24 III, 23 C)	0.02	70	7101101 0010
Hardness	Typical Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		ASTM D785
Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	45000	MPa	ASTM D638
Tensile Strength(Yield)	294	MPa	ASTM D638
Tensile Elongation(Yield)	0.5	%	ASTM D638
Flexural Modulus	4000	MPa	ASTM D790
Flexural Strength	400	MPa	ASTM D790
Compressive Strength	192	MPa	ASTM D695
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Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact(3.18mm)	87	J/m	ASTM D256
Unnotched Izod Impact(3.18mm)	720	J/m	ASTM D4812
Flammability	Typical Value	Unit	Test Method
Flame Rating	V-0	- Oille	UL 94
Electrical Properties	Typical Value		Test Method
Volume Resistivity	1.00E+05	ohms·cm	ASTM D257
Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	260	$^{\circ}$	
1.8 MPa, Unannealed	260		
CLTE - Flow		cm/cm/°C	ASTM D696
Thermal Conductivity		W/m/K	ASTM C177

Processing Information	Typical Value	Unit
Drying Temperature	149	$^{\circ}$
Drying Time	6	hr
Suggested Max	0.04	%
Suggested Max Regrind	20	%
Rear Temperature	285 to 343	$^{\circ}$
Middle Temperature	285 to 343	$^{\circ}$
Front Temperature	285 to 343	${\mathbb C}$
Mold Temperature	66 to 177	${\mathbb C}$
Injection Pressure	68.9 to 103	MPa
Back Pressure	0.345 to 0.689	MPa
Screw Speed	60 to 90	rpm
Clamp Tonnage	6.9 to 11	kN/cm ²

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 1mil/in.

NFD ADVANCED COMPOSITES

Tepla® T2055CF

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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