

Tepla® T8245CF

Material Description:

Tepla® T8245CF is a Thermoplastic Polyimide (TPI) product filled with 45% carbon fiber. Characteristics include: High Strength.

General

Material Status	• Commercial: Active	
Availability	• Asia Pacific	• North America
	• Europe	• Latin America
	• Middle East	• Africa
Filler/Reinforcement	• Carbon Fiber, 45% Filler by Weight	
Features	• High Strength	• High Rigidity
	• Creep Resistant	• Heat Resistant
	• Wear Resistant	• Low Temperature Resistant
	• Flame Retardant	• Chemical Resistant
	• Good Dimensional Stability	
RoHS Compliance	• RoHS Compliant	
Processing Method	• Injection Molding	

Physical Properties	Typical Value	Unit	Test Method
Specific Gravity	1.53	g/cm ³	ASTM D792
Molding Shrinkage (3.2mm)	0.02 to 0.1	%	ASTM D955
Moisture Content	0.01	%	

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	34000	MPa	ASTM D638
Tensile Strength	260	MPa	ASTM D638
Tensile Elongation	1.5	%	ASTM D638
Flexural Modulus	28000	MPa	ASTM D790
Flexural Strength	355	MPa	ASTM D790

Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact (3.2mm)	107	J/m	ASTM D256
Unnotched Izod Impact (3.2mm)	920	J/m	ASTM D4812

Flammability	Typical Value	Unit	Test Method
Ignition Resistance ¹ Flammability (1.5mm)	V-0		ASTM D3801

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load 1.8MPa	>316	°C	ASTM D648

Processing Information	Typical Value	Unit
Injection Pressure	138 to 193	MPa
Melt Temperature	399 to 416	°C
Mold Temperature	177 to 232	°C
Drying Temperature	204	°C
Drying Time	6	hr
Moisture Content	0.01	%
Dew Point	-40	°C

Notes: Desiccant Type Dryer Required.

¹ This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

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热熔温度或时间。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.

上列数据仅作参考用途，它们可能会受不同因素的影响，使用者有责任通过实验自行确定材料特性。上述资料根据现有测试得出，对物料特性是否适合某特殊用途及特性不能给予保证，数据也没有任何法律约束力。更多有关详细的产品监管信息，请联系客户服务。

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