

Matreial Data Sheet

技术数据表

NFD Composite Material (Jiangsu) Co., Ltd

Tepla® T8040LCF

Material Description:

Maximum Moisture Content

Melt Temperature

Mold Temperature

Tepla® T8040LCF is a compound based on Polyetherimide(PEI) containing 40% Long Carbon Fiber. Added feature of this grade is: Structural.

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General			
Material Status	 Commercial: Active 		
Availability	Asia Pacific		North America
	• Europe		Latin America
	Middle East		Africa
Filler/Reinforcement	 Long Carbon Fiber, 40% Fil 	ler by Weight	
Features	Structural Parts		Good Mechanical Properties
	Heat Resistant		Low Temperature Resistant
	Fatigue Resistant		Creep Resistant
	Flame Retardant		Good Electrical Properties
	High Strength		<u> </u>
Applications	Structural Parts		Consumer Applications
	 Automotive Applications 		Industrial Applications
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical Properties	Typical Value		Test Method
Specific Gravity	1.6	g/cm ³	ASTM D792
Mold Shrinkage			ASTM D955
Flow, 24 hrs	0.1 to 0.3	%	
Across Flow, 24 hrs	0.3 to 0.5	%	
Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus, 5 mm/min	35000	MPa	ASTM D638
Tensile Strength, break, Type I	280	MPa	ASTM D638
5.0 mm/min			
Tensile Elongation, break, Type I	1.5	%	ASTM D638
5.0 mm/min			
Flexural Modulus, 1.3 mm/min	36000	MPa	ASTM D790
50.0 mm Span			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Flexural Strength, break, 1.3 mm/min	430	MPa	ASTM D790
50.0 mm Span			
Compressive Strength	410	MPa	NFD Method
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Impact Properties	Typical Value		Test Method
Notched Izod Impact, 23℃	195	J/m	ASTM D256
Unnotched Izod Impact, 23℃	840	J/m	ASTM D4812
Thermal Properties	Typical Value	Unit	Tost Mathad
Thermal Properties Deflection Temperature Under Load	Typical Value	Offic	Test Method
·	206	$^{\circ}\! \mathbb{C}$	ASTM D648
1.82MPa, Unannealed, 3.2mm CLTE			ASTM D696
	1 505 05	/ /°C	ASTIVI D090
-30°C to 30°C, Flow	1.50E-05	cm/cm/℃	
-30°C to 30°C, Xflow	4.1UE-U5	cm/cm/℃	
Processing Information	Typical Value	Unit	
1 Toccssing information	Typical value	Offic	

350 to 364

149 to 164

0.15 %

Drying Temperature	121	$^{\circ}$
Drying Time	4	hr
Front Temperature	350 to 364	$^{\circ}\!$
Middle Temperature	350 to 364	${\mathbb C}$
Rear Temperature	345 to 360	$^{\circ}\!$
Back Pressure	0.29 to 0.43	MPa
Screw Speed	30 to 60	rpm

NFD ADVANCED COMPOSITES

Tepla® T8040LCF

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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感谢您访问新孚达(NFD)! 我们秉承"New Formula Designer"的发展理念,将科研创新与生产应用紧密相连, 无论您是设计师、工程师或者是采购专家, 我们都可以帮助您拓展业务并获得新的灵感 。 我们坚持诚信、合作、效率、创新的核心价值观,始终把客户放在第一位。相比于我们的竞争对手, 我们专注于为您提供更先进的技术配方、更优质的产品,更好的解决方案及更周到的售后服务, 我们懂市场、我们懂产品、我们更懂你们。

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

