

Matreial Data Sheet

技术数据表

NFD Composite Material (Jiangsu) Co., Ltd

Tepla® T7200

Material Description:

Tepla ® T7200 is Ultra high performance thermoplastic polymer, unfilled Polyether Ketone (PEKK), semicrystalline granules suitable for injection molding and compounding, standard flow, brown in color.Application Areas: Suitable for high temperature under heavy load applications, high compressive strength & abrasion resistance, high chemical resistance & oil resistance etc.

resistance etc.				
General				
Material Status	Commercial: Active			
	Asia Pacific		North America	
Availability	• Europe		Latin America	
,	Middle East		Africa	
	Abrasion Resistant		Good Flow	
_	Chemical Resistant		High Heat Resistance	
Features	Good Compressive Strength	th	Oil Resistant	
	Semi Crystalline		on reductant	
Uses	High Temperature Applica	tions		
Appearance	Brown			
Forms	Granules			
Processing Method	Compounding		Injection Molding	
Frocessing Method	Compounding		• Injection Molaling	
Physical Properties	Typical Value	Unit		Test Method
Density		g/cm ³		
Molding Shrinkage ¹	1.0	g/ cm		
	1.2	0/		
Flow	1.2			
Across Flow	1.3	%		40TM DE70
Water Absorption (Equilibrium)	0.04	%		ASTM D570
Hardness	Typical Value	Unit		Test Method
Durometer Hardness (Shore D)	Typical value 87	Unit		ASTM D2240
Durometer Hardness (Shore D)	61			ASTIVI DZZ40
Mechanical Properties	Typical Value	Unit		Test Method
Tensile Modulus (23°C)	4000	MPa		ASTM D638
Tensile Strength (Yield, 23°C)	87	MPa		ASTM D638
Tensile Elongation (Break, 23°C)	3.0 to 4.0	%		ASTM D638
Flexural Modulus (23°C)	4070	MPa		ASTM D790
Flexural Strength (23°C)	188	MPa		ASTM D790
Flexural Strength (25 C)		IVIF a		ASTIVI D190
Impact Properties	Typical Value	Unit		Test Method
Notched Izod Impact (23℃)	the state of the s	J/m		ASTM D256
Unnotched Izod Impact (23°C)	No Break	J/111		ASTM D230
Offilotoried izod impact (23 C)	INO DIEAK			A31101 D4012
Flammability	Typical Value	Unit		Test Method
Flame Rating (0.8 mm)	V-0			UL94
Traine Nating (0.0 min)	V-0			0134
Thermal Properties	Typical Value	Unit		Test Method
Deflection Temperature Under Load	· · · · · · · · · · · · · · · · · · ·			
1.8 MPa, Unannealed	188	$^{\circ}$ C		ASTM D648
Continuous Use Temperature	300	$^{\circ}$		UL 746B
Glass Transition Temperature	176	$^{\circ}$		ASTM D3418
·	396	$^{\circ}$		
Melting Temperature				ASTM D3418
Thermal Stability - Haake ²	25	min		
Injection	Typical Value	l Init -		
injection	Typical value	Unit		

Drying Temperature	150 ℃	
Drying Time	4.0 to 6.0 hr	
Hopper Temperature	60 to 80 °C	
Nozzle Temperature	425 ℃	
Processing (Melt) Temp	390 to 425 ℃	
Mold Temperature	200 to 220 ℃	

Notes

NFD ADVANCED COMPOSITES

Tepla® T7200

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



¹425℃ nozzle, 220℃ Mold

² GSRF 05/420 °C, 60 rpm