Matreial Data Sheet

技术数据表

NFD Composite Material (Jiangsu) Co., Ltd

Tepla® T2015GF 15TF

Material Description:

Tepla ® T2015GF 15TF is a Polyphenylene Sulfide (PPS) product filled with 15% glass fiber and 15% PTFE.Characteristics include: Lubricated Wear Resistant

include:Lubricated,Wear Resistant.				
General				
Material Status	Commercial: Active			
Thaterial States	Asia Pacific		North America	
Availability	• Europe		Latin America	
, wandsmey	Middle East		Africa	
Filler/Reinforcement	Glass Fiber, 15% Filler by W	/eiaht	7 111100	
Additive	• PTFE Lubricant: 15%	cigiti		
Additive	• Lubricated		Flame Retardant	
	Good Dimensional Stability	1	Creep Resistant	
Features	Low Moisture Absorption	/	Chemical Resistant	
reatures	Good Rigidity		Wear Resistant	
	Medium Heat Resistance		- Wear Resistant	
Annogranco	Black		Natural Color	
Appearance Forms	Pellets		• Natural Color	
RoHS Compliance	Contact Manufacturer			
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Processing Method	Injection Molding			
Dhysical Dyanautics	Turnical Value	Limit		Toot Motherd
Physical Properties	Typical Value			Test Method
Density/Specific Gravity	1.56	g/cm ³		ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.4	%		ASTM D955
Water Absorption (24 hr, 23℃)	0.02	%		ASTM D570
Hardness	Typical Value	Unit		Test Method
Rockwell Hardness (R-Scale)	119			ASTM D785
Mechanical Properties	Typical Value	Unit		Test Method
Tensile Modulus	7900	MPa		ASTM D638
Tensile Strength	91	MPa		ASTM D638
Tensile Elongation(Break)	1.6	%		ASTM D638
Flexural Modulus	7200	MPa		ASTM D038
Flexural Strength	135	MPa		ASTM D790
	98	MPa		ASTM D790
Compressive Strength Coefficient of Friction	96	IVIPa		
	0.10			ASTM D1894
vs. Metal - Dynamic	0.13			
vs. Metal - Static	0.14			
Impact Properties	Typical Value			Test Method
Notched Izod Impact(3.18mm)	45	J/m		ASTM D256
Unnotched Izod Impact(3.18mm)	173	J/m		ASTM D4812
Flammability	Typical Value	Unit		Test Method
Flame Rating (1.6mm)	V-0			UL 94
Electrical Properties	Typical Value	Unit		Test Method
Volume Resistivity	1.00E+16	ohms·cm		ASTM D257
Dielectric Strength	14	kV/mm		ASTM D149
Dielectric Genstant (1 MHz)	3.4	KV/IIIII		ASTM D143
Dissipation Factor (1 MHz)	1.00E-03			ASTM D150
Dissipation Factor (1 MHZ)	1.00E-03			V21INI DT20

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	260	$^{\circ}\! \mathbb{C}$	
1.8 MPa, Unannealed	238	$^{\circ}\!\mathrm{C}$	
CLTE - Flow	4.10E-05	cm/cm/°C	ASTM D696
Thermal Conductivity	0.3	W/m/K	ASTM C177

Processing Information Typical Value	Unit
Drying Temperature 149	$^{\circ}$
Drying Time 6	hr
Suggested Max Moisture 0.04	%
Suggested Max Regrind 20	%
Rear Temperature 302 to 343	$^{\circ}$
Middle Temperature 302 to 343	$^{\circ}$
Front Temperature 302 to 343	$^{\circ}$
Mold Temperature 135 to 177	$^{\circ}$
Injection Pressure 68.9 to 138	MPa
Clamp Tonnage 6.9 to 11	kN/cm ²

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 7mil/in. Wear Factor, K, ASTM D-3702: 110E-10in³/min/ft/lb/hr Coefficient of Friction, Dynamic, ASTM D-3702: 0.13 Coefficient of Friction, Static, ASTM D-3702: 0.14

NFD ADVANCED COMPOSITES

Tepla® T2015GF 15TF

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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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。

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