

Tepla® T6030GF 15TF CL

Material Description:

Tepla® T6030GF 15TF CL is a compound based on Polyethersulfone(PES) resin containing Glass Fiber, PTFE. Added features of this material include: Internally Lubricated.

General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> Asia Pacific Europe Middle East North America Latin America Africa
Filler/Reinforcement	<ul style="list-style-type: none"> Glass Fiber,30% Filler By Weight
Additive	<ul style="list-style-type: none"> PTFE Lubricant:15%
Features	<ul style="list-style-type: none"> Lubricated High Strength Good Processability Flame Retardant Chemical Resistant Wear Resistant Heat Resistant Good Mechanical Properties Hydrolysis Resistant
RoHS Compliance	<ul style="list-style-type: none"> RoHS Compliant
Processing Method	<ul style="list-style-type: none"> Injection Molding

Physical Properties	Typical Value	Unit	Test Method
Specific Gravity	1.7	g/cm ³	ASTM D792
Density	1.7	g/cm ³	ISO 1183
Moisture Absorption (24hr, 50% RH)	0.29	%	ASTM D570
Mold Shrinkage			ASTM D955
Flow, 24 hrs	0.1 to 0.4	%	
Transverse Flow, 24 hrs	0.3 to 0.6	%	
Mold Shrinkage			ISO 294-4
Flow, 24 hrs	0.1 to 0.3	%	
Transverse Flow, 24 hrs	0.3 to 0.6	%	
Moisture Absorption (23°C, 50% RH)	0.5	%	ISO 62

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	11900	MPa	ISO 527-2/1
Tensile Modulus, 50 mm/min	12800	MPa	ASTM D638
Tensile Stress, break	131	MPa	ASTM D638
Tensile Strain, break	2	%	ASTM D638
Tensile Stress, break	125	MPa	ISO 527
Tensile Strain, break	2	%	ISO 527
Flexural Modulus	10700	MPa	ISO 178
Flexural Modulus	10200	MPa	ASTM D790
Flexural Stress	176	MPa	ASTM D790
Flexural Stress	169	MPa	ISO 178
Coefficient of Friction			ASTM D3702 Modified
Dynamic	0.46		
Static	0.36		
Wear Factor - Washer	60	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified

Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact, 23°C	86	J/m	ASTM D256
Unnotched Izod Impact, 23°C	362	J/m	ASTM D4812

Notched Izod Impact 80*10*4, 23°C	9.1 kJ/m ²	ISO 180/1A
Unnotched Izod Impact 80*10*4, 23°C	23.6 kJ/m ²	ISO 180/1U
Instrumented Impact Total Energy 23°C	9.4 J	ASTM D3763
Multiaxial Impact	2.5 J	ISO 6603-2

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load 1.82MPa, Unannealed, 3.2mm /Af, 1.8 MPa Flatw 80*10*4 sp=64mm	208 210	°C °C	ASTM D648 ISO 75/Af
CLTE			ASTM E831
-40°C to 40°C, Flow	2.30E-05	cm/cm/°C	
-40°C to 40°C, Xflow	2.30E-05	cm/cm/°C	
CLTE			ISO 11359-2
-40°C to 40°C, Flow	3.50E-05	cm/cm/°C	
-40°C to 40°C, Xflow	3.50E-05	cm/cm/°C	

Processing Information	Typical Value	Unit
Maximum Moisture Content	0.05	%
Melt Temperature	354 to 370	°C
Mold Temperature	138 to 150	°C
Drying Temperature	120 to 150	°C
Drying Time	4	hr
Front Temperature	370 to 382	°C
Middle Temperature	360 to 370	°C
Rear Temperature	343 to 355	°C
Back Pressure	0.344 to 0.689	MPa
Screw Speed	60 to 100	rpm

NFD ADVANCED COMPOSITES

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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处理温度或时间。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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