ISO 180/1U

Tepla® T8025CF EC EF

Material Description:

Unnotched Izod Impact

80*10*4, 23℃

Tepla® T8025CF EC EF is a compound based on Polyetherimide(PEI) resin containing 25% Carbon Fiber. Added features of this material include: Easy Molding, Electrically Conductive.

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General			
Material Status	 Commercial: Active 		
	 Asia Pacific 		 North America
Availability	• Europe		 Latin America
	Middle East		Africa
Filler/Reinforcement	 Cabon Fiber,25% Filler By V 	Veight	
	Easy Molding		Fatigue Resistant
	Steam Resistant		Creep Resistant
	Chemical Resistant		Flame Retardant
Factoria	Heat Resistant		High Stiffness
Features	Wear Resistant		UV Resistant
	 Radiation (Gamma) Resista 	nt	Hydrolysis Stable
	 Good Dimensional Stability 	/	Low Extractable
	Electrically Conductive		Low Temperature Resistant
	Hospital Goods		Aircraft Applications
Amaliantiana	Industrial Applications		Medical Devices
Applications	Connectors		Medical/Healthcare Applications
	Dental Applications		Electrical/Electronic Applications
RoHS Compliance	RoHS Compliant		
Processing Method	 Injection Molding 		
Physical Properties	Typical Value	Unit	Test Metho
Density	1.37	g/cm ³	ASTM D79
Density	1.36	g/cm ³	ISO 118
Water Absorption (24hr, 50% RH)	0.16	%	ASTM D57
Water Absorption	0.00	0/	
(Equilibrium,23°C, 50% RH)	0.23	%	ISO 6
Mold Shrinkage			ASTM D95
Flow, 24 hrs	0.05 to 0.3	%	
Across Flow, 24 hrs	0.3 to 0.5		
Mold Shrinkage			ISO 29
Flow, 24 hrs	0.1 to 0.3	%	
Across Flow, 24 hrs	0.3 to 0.5		
Mechanical Properties		Unit	Test Metho
Tensile Modulus, 1 mm/min	12200	MPa	ISO 52
Tensile Modulus, 50 mm/min	12700	MPa	ASTM D63
Tensile Stress, break	205	MPa	ASTM D63
Flexural Modulus	14800	MPa	ASTM D79
Flexural Stress	280	MPa	ASTM D79
Flexural Stress	281	MPa	ISO 17
mpact Properties	Typical Value	Unit	Test Metho
Notched Izod Impact, 23℃		J/m	ASTM D25
Unnotched Izod Impact, 23°C	445	J/m	ASTM D481
Notched Izod Impact			
80*10*4, 23°C	6.3	kJ/m²	ISO 180/1

 29.5 kJ/m^2

Instrumented Impact Total Energy 23℃	10.4 J	ASTM D3763
Multiaxial Impact	7.14 J	ISO 6603

Electrical Properties	Typical Value	Unit	Test Method
Surface Resistivity	100 to 1E5	Ohms	ASTM D257
Volume Resistivity	100 to 1E6	Ohms•cm	ASTM D257

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load			
1.82MPa, Unannealed, 3.2mm	207	$^{\circ}\!\mathrm{C}$	ASTM D648
/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	208	$^{\circ}\!\mathrm{C}$	ISO 75/Af
CLTE			ASTM E831
-40°C to 40°C, Flow	1.90E-05	cm/cm/°C	
-40°C to 40°C, Xflow	2.71E-05	cm/cm/°C	
CLTE			ISO 11359-2
-40°C to 40°C, Flow	1.92E-05	cm/cm/°C	
-40°C to 40°C, Xflow	2.71E-05	cm/cm/℃	

Processing Information Typical Value	Unit
Maximum Moisture Content 0.05	%
Melt Temperature 360 to 365	$^{\circ}\!\mathbb{C}$
Mold Temperature 120 to 150	$^{\circ}\!\mathbb{C}$
Drying Temperature 120 to 150	$^{\circ}\!\mathbb{C}$
Drying Time 4	hr
Front Temperature 365 to 375	$^{\circ}\!$
Middle Temperature 355 to 365	$^{\circ}\!$
Rear Temperature 345 to 355	$^{\circ}\!\mathbb{C}$
Back Pressure 0.344 to 0.689	MPa
Screw Speed 60 to 100	rpm

NFD ADVANCED COMPOSITES

Tepla® T8025CF EC EF

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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