

Matreial Data Sheet

技术数据表

NFD Composite Material (Jiangsu) Co., Ltd

Elastever® E1140GF-86D

Material Description:

Elastever ® E1140GF-86D is a Thermoplastic Polyurethane Elastomer(TPU-polyether) product filled with 40% glass fiber. Characteristics include: Wear Resistant.

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General				
Material Status	Commercial: Active			
	Asia Pacific	•	North America	
Availability	• Europe	•	Latin America	
,	Middle East	•	Africa	
Filler/Reinforcement	Glass Fiber, 40% Filler by W	/eight		
	Abrasion Resistant		Chemical Resistant	
Features	Low Temperature Toughner	ess •	Ageing Resistant	
	Cold Resistant	•	Oil Resistant	
Appearance	Black	•	Natural Color	
Forms	• Pellets			
RoHS Compliance	RoHS Compliant			
Processing Method	Injection Molding			
Physical Properties	Typical Value			Test Method
Density/Specific Gravity	1.54	g/cm ³		ASTM D792
Water Absorption (23℃, 24 hr)	0.15	%		ASTM D570
Molding Shrinkage - Flow	0.2	%		ASTM D955
Hardness	Typical Value	Unit		Test Method
Rockwell Hardness (R-Scale)	119			ASTM D785
Durometer Hardness (Shore D)	86			ASTM D2240
Mechanical Properties	Typical Value	Unit		Test Method
Tensile Modulus	9300	MPa		ASTM D638
Tensile Strength(Yield)	132	MPa		ASTM D638
Tensile Elongation(Break)	5	%		ASTM D638
Flexural Modulus	7200	MPa		ASTM D790
Flexural Strength(Yield)	175	MPa		ASTM D790
Compressive Strength	89	MPa		ASTM D695
Impact Properties	Typical Value	Unit		Test Method
Notched Izod Impact(3.18mm)	170	J/m		ASTM D256
Unnotched Izod Impact(3.18mm)	1350	J/m		ASTM D4812
Flammability	Typical Value	Unit		Test Method
Flame Rating (1.6mm)	НВ	- Cinc		UL 94
Electrical Properties	Typical Value	Unit		Test Method
Volume Resistivity	1.00E+11	Ohms·cm		ASTM D257
Dielectric Strength	18	kV/mm		ASTM D149
Dielectric Constant (1 MHz)	4.2			ASTM D150
Dissipation Factor (1 MHz)	0.017			ASTM D150
Arc Resistance	90	sec		ASTM D495
Thermal Properties	Typical Value	Unit		Test Method
Deflection Temperature Under Load	7,			ASTM D648
0.45 MPa,Unannealed	138	$^{\circ}\! \mathbb{C}$		
1.8 MPa, Unannealed	94	$^{\circ}$		
,		-		

CLTE - Flow	2.70E-05 cm/cm/℃	ASTM D696
Thermal Conductivity	0.43 W/m/K	ASTM C177

Processing Information	Typical Value	Unit
Rear Temperature	182 to 199	${\mathbb C}$
Middle Temperature	188 to 204	${\mathbb C}$
Front Temperature	193 to 210	${\mathbb C}$
Mold Temperature	16 to 66	$^{\circ}\mathbb{C}$
Injection Pressure	68.9 to 103	MPa

NFD ADVANCED COMPOSITES

Elastever® E1140GF-86D

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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