

Elastever® E3000 XC

Material Description:

Elastever® E3000 XC is a Thermoplastic Polyester Elastomer (TPEE) product filled with Proprietary Filler. Characteristics include: Impact Resistant.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
	• Europe
	• Middle East
Filler/Reinforcement	• Proprietary
	• Good Processability
	• Heat Resistant
Features	• Impact Resistant
	• Oil Resistant
	• RoHS Compliant
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical Properties	Typical Value	Unit	Test Method
Density/Specific Gravity	1.23	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow:24 hr	2.2	%	
Across Flow:24 hr	2.2	%	
Water Absorption			
24 hr, 50% RH	0.21	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.32	%	ISO 62

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus			
50 mm/min	405	MPa	ASTM D638
	437	MPa	ISO 527-2/1
Tensile Strength			
Yield, Type I, 5.0 mm/min	23.2	MPa	ASTM D638
Yield	23.2	MPa	ISO 527-2/5
Break, Type I, 5.0 mm/min	34.8	MPa	ASTM D638
Break	32	MPa	ISO 527-2/5
Tensile Elongation			
Yield, Type I, 5.0 mm/min	27.5	%	ASTM D638
Yield	27.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span, 1.3 mm/min	342	MPa	ASTM D790
2.0 mm/min	339	MPa	ISO 178
Flexural Stress	14.5	MPa	ISO 178

Impact Properties	Typical Value	Unit	Test Method
Instrumented Dart Impact			
23°C, Total Energy	32.4	J	ASTM D3763
	4.05	J	ISO 6603-2

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.2mm	112	°C	ASTM D648
0.45 MPa, Unannealed			
64mm Span, 80*10*4 mm	87	°C	ISO 75-2/Bf

1.8 MPa, Unannealed,3.2mm	47 °C	ASTM D648
1.8 MPa, Unannealed 64mm Span,80*10*4 mm	49 °C	ISO 75-2/ Af
CLTE		ASTM D696
Flow:-30 to 30°C	2.00E-04 cm/cm/°C	
Transverse:-30 to 30°C	1.70E-04 cm/cm/°C	

Processing Information	Typical Value	Unit
Processing (Melt) Temp	216 to 238	°C
Mold Temperature	27 to 54	°C
Drying Temperature	82	°C
Drying Time	4	hr
Suggested Max Moisture	0.1	%
Rear Temperature	182 to 193	°C
Middle Temperature	204 to 216	°C
Front Temperature	227 to 238	°C
Screw Speed	30 to 60	rpm
Back Pressure	0.172 to 0.344	MPa

NFD ADVANCED COMPOSITES

Elastever® E3000 XC

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.

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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