

Elastever® E3025GF

Material Description:

Elastever® E3025GF is a Thermoplastic Polyester Elastomer (TPEE) product filled with 25% glass fiber. Characteristics include: Flame Retardant.

General

Material Status	• Commercial: Active	
Availability	• Asia Pacific	• North America
	• Europe	• Latin America
	• Middle East	• Africa
Filler/Reinforcement	• Glass Fiber, 25% Filler by Weight	
Features	• Flame Retardant	• Shock Absorption
	• Heat Resistant	• Fatigue Resistant
	• Impact Resistant	• Chemical Resistant
	• Oil Resistant	• Good Processability
RoHS Compliance	• RoHS Compliant	
Processing Method	• Injection Molding	

Physical Properties	Typical Value	Unit	Test Method
Density/Specific Gravity	1.4	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow:24 hr	0.5 to 0.7	%	
Across Flow:24 hr	1 to 3	%	
Water Absorption			
24 hr, 50% RH	0.21	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.41	%	ISO 62

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus			
50 mm/min	2600	MPa	ASTM D638
	2500	MPa	ISO 527-2/1
Tensile Strength			
Yield, Type I, 5.0 mm/min	50	MPa	ASTM D638
Yield	48	MPa	ISO 527-2/5
Break, Type I, 5.0 mm/min	48	MPa	ASTM D638
Break	46	MPa	ISO 527-2/5
Tensile Elongation			
Yield, Type I, 5.0 mm/min	9	%	ASTM D638
Yield	9	%	ISO 527-2/5
Break, Type I, 5.0 mm/min	10	%	ASTM D638
Break	10	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span, 1.3 mm/min	2300	MPa	ASTM D790
2.0 mm/min	2280	MPa	ISO 178
Flexural Stress	56	MPa	ISO 178

Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact			
23°C	335	J/m	ASTM D256
23°C, 80*10*4	29	KJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1000	J/m	ASTM D4812
23°C, 80*10*4	75	KJ/m ²	ISO 180/1U
Instrumented Dart Impact			

23°C, Total Energy	15.3 J	ASTM D3763
	7.6 J	ISO 6603-2

Thermal Properties	Typical Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa,Unannealed,3.2mm	186	°C	ASTM D648
0.45 MPa,Unannealed,64mm	180	°C	ISO 75-2/Bf
Span,80*10*4 mm			
1.8 MPa, Unannealed,3.2mm	152	°C	ASTM D648
1.8 MPa, Unannealed,64mm	142	°C	ISO 75-2/Af
Span,80*10*4 mm			
CLTE			ASTM D696
Flow:-30 to 30°C	3.60E-05	cm/cm/°C	
Transverse:-30 to 30°C	1.80E-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® E3025GF

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熔温度或时间。请避免吸入或与皮肤、眼睛等接触。清扫和处理溢出的树脂，以消除滑倒的危险。

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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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