

Elastever® E3015TF CL

Material Description:

Elastever® E3015TF CL is a Thermoplastic Polyester Elastomer (TPEE) product filled with 15% PTFE. Characteristics include: Lubricated, Wear Resistant.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
	• Europe
	• Middle East
Additive	• PTFE Lubricant: 15%
	• Lubricated
	• High Resilience
Features	• Impact Resistant
	• Environmental Protection
	• Oil Resistant
	• Shock Absorption
	• RoHS Compliance
	• RoHS Compliant
Processing Method	• Injection Molding

Physical Properties	Typical Value	Unit	Test Method
Density/Specific Gravity	1.28	g/cm ³	ASTM D792
	1.27	g/cm ³	
Molding Shrinkage			ASTM D955
Flow:24 hr	1 to 3	%	
Across Flow:24 hr	1 to 3	%	
Water Absorption	0.33	%	ASTM D570
	0.47	%	
24 hr, 50% RH			ISO 62
Equilibrium, 23°C, 50% RH			

Mechanical Properties	Typical Value	Unit	Test Method
Tensile Modulus	275	MPa	ASTM D638
	280	MPa	
Tensile Strength	45	MPa	ASTM D638
	44	MPa	
Tensile Elongation	35	%	ASTM D638
	43	%	
Flexural Modulus	270	MPa	ASTM D790
	265	MPa	
50.0 mm Span,1.3 mm/min			ISO 178
2.0 mm/min			

Impact Properties	Typical Value	Unit	Test Method
Notched Izod Impact	315	J/m	ASTM D256
	36	KJ/m ²	
23°C,80*10*4			ISO 180/1A
Unnotched Izod Impact			
23°C	450	J/m	ASTM D4812
23°C,80*10*4	43	KJ/m ²	
Instrumented Dart Impact			ISO 180/1U
23°C, Total Energy	25	J	

Thermal Properties	Typical Value	Unit	Test Method
CLTE			ASTM D696
Flow:-30 to 30°C	1.70E-04	cm/cm/°C	
Transverse:-30 to 30°C	1.90E-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® E3015TF CL

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，以消除滑倒的危险。

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.

上列数据只作参考用途，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。

COMPANY/公司:

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