

DURANEX® 3116

Polybutylene Terephthalate

Polyplastics Co., Ltd.

Message:

Flame Retardant, Standard, UL Approved Regrind 50% Inclusive, GF7.5% reinforced, Standard

General Information			
UL YellowCard	E213445-228914		
Filler / Reinforcement	Glass fiber reinforced material, 7.5% filler by weight		
Additive	Flame retardancy		
Recycled Content	Yes, 50%		
Features	Flame retardancy		
UL File Number	E213445		
Forms	Particle		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>PBT-GF10 FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	91.0	MPa	ISO 527-2
Tensile Strain (Break)	3.4	%	ISO 527-2
Flexural Modulus	4710	MPa	ISO 178
Flexural Stress	144	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.1	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	201	°C	ISO 75-2/A
Linear thermal expansion coefficient			Internal method
Flow: 23 to 55°C	6.0E-5	cm/cm/°C	Internal method
Lateral: 23 to 55°C	9.0E-5	cm/cm/°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	3.0E+16	ohms · cm	IEC 60093
Dielectric Strength (3.00 mm)	22	kV/mm	IEC 60243-1
Comparative Tracking Index	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information	Nominal Value		
Color Number	EF2001/ED3002		
Injection	Nominal Value	Unit	

Drying Temperature	120 - 140	°C
Drying Time	3.0 - 5.0	hr
Processing (Melt) Temp	250 - 270	°C
Mold Temperature	40.0 - 80.0	°C
Holding Pressure	60.0 - 100	MPa
Screw Speed	100 - 150	rpm

Injection instructions

Cooling Time: Plasticization time + alpha or time without sticking in mold

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

