

DURANEX® 315NFK

Polybutylene Terephthalate

Polyplastics Co., Ltd.

Message:

Halogen-Free Flame retardant system, Higher Comparative Tracking Index

General Information			
UL YellowCard	E213445-102195619		
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Additive	Flame retardancy		
Features	Halogen-free		
	Flame retardancy		
UL File Number	E213445		
Forms	Particle		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>PBT-GF15FR(40)		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	85		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	80.0	MPa	ISO 527-2
Tensile Strain (Break)	2.8	%	ISO 527-2
Flexural Modulus	6400	MPa	ISO 178
Flexural Stress	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	207	°C	ISO 75-2/A
Linear thermal expansion coefficient			Internal method
Flow: 23 to 55°C	4.0E-5	cm/cm/°C	Internal method
Lateral: 23 to 55°C	8.0E-5	cm/cm/°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (3.00 mm)	19	kV/mm	IEC 60243-1
Comparative Tracking Index	600	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

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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

