

DURANEX® 310NF

Polybutylene Terephthalate

Polyplastics Co., Ltd.

Message:

Halogen-Free Flame retardant system, GF10% reinforced, Standard

Previous Name:XFR4840 GF10

General Information			
UL YellowCard	E213445-102194015		
Filler / Reinforcement	Glass fiber reinforced material, 10% 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-GF10FR(40)		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	70.0	MPa	ISO 527-2
Tensile Strain (Break)	3.5	%	ISO 527-2
Flexural Modulus	5000	MPa	ISO 178
Flexural Stress	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	°C	ISO 75-2/A
Linear thermal expansion coefficient			Internal method
Flow: 23 to 55°C	5.0E-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
Dielectric Strength (3.00 mm)	19	kV/mm	IEC 60243-1
Comparative Tracking Index	550	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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