

DURANEX® 353RA

Polybutylene Terephthalate

Polyplastics Co., Ltd.

Message:

Resin Adhesion Improved for Multiple Injection Molding, GF30% reinforced, Hydrolysis resistance

General Information			
UL YellowCard	E213445-228954		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Flame retardancy		
Features	Good adhesion		
	Hydrolysis resistance		
	Flame retardancy		
UL File Number	E213445		
Forms	Particle		
Processing Method	Multiple injection molding		
	Injection molding		
Part Marking Code (ISO 11469)	>PBT-GF30FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.68	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	143	MPa	ISO 527-2
Tensile Strain (Break)	2.1	%	ISO 527-2
Flexural Modulus	10300	MPa	ISO 178
Flexural Stress	221	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	197	°C	ISO 75-2/A
Linear thermal expansion coefficient			Internal method
Flow: 23 to 55°C	2.0E-5	cm/cm/°C	Internal method
Lateral: 23 to 55°C	7.0E-5	cm/cm/°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	IEC 60093
Dielectric Strength (3.00 mm)	20	kV/mm	IEC 60243-1
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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