

DURANEX® 7300E

Polybutylene Terephthalate

Polyplastics Co., Ltd.

Message:

DURANEX®7300E is a polybutene terephthalate (PBT) product, which contains a filler of 35% glass/carbon powder. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region.

Features include:

flame retardant/rated flame

Conductivity

General Information			
UL YellowCard	E213445-229004		
Filler / Reinforcement	Glass \charcoal powder, 35% filler by weight		
Features	Conductivity		
UL File Number	E213445		
Forms	Particle		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>PBT-(GF+CD)35		
Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	100		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	110	MPa	ISO 527-2
Tensile Strain (Break)	2.3	%	ISO 527-2
Flexural Modulus	7000	MPa	ISO 178
Flexural Stress	171	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	205	°C	ISO 75-2/A
Linear thermal expansion coefficient			Internal method
Flow: 23 to 55°C	3.0E-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	2.0E+11	ohms · cm	IEC 60093
Dielectric Strength (3.00 mm)	1.0	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value		

Color Number	ED3002	
Injection	Nominal Value	Unit
Drying Temperature	120 - 140	°C
Drying Time	3.0 - 5.0	hr
Rear Temperature	250 - 270	°C
Middle Temperature	250 - 270	°C
Front Temperature	250 - 270	°C
Mold Temperature	40 - 80	°C
Holding Pressure	60.0 - 100	MPa
Screw Speed	100 - 150	rpm

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