

DURANEX® 751SA

Acrylonitrile Butadiene Styrene + PBT

Polyplastics Co., Ltd.

Message:

Low Warpage, SA Series, for ODD and OA chassis, GF reinforced, Low gravity, Low wear

General Information			
Filler / Reinforcement	Glass fiber \glass flake, 30% filler by weight		
Additive	Flame retardancy		
Features	Low density		
	Low warpage		
	Good wear resistance		
	Flame retardancy		
UL File Number	E213445		
Forms	Particle		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>PBT+ABS-(GF+GS)30 FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	99.0	MPa	ISO 527-2
Tensile Strain (Break)	1.8	%	ISO 527-2
Flexural Modulus	8680	MPa	ISO 178
Flexural Stress	149	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.6	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	190	°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	6.0E-5	cm/cm/°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	7.0E+16	ohms · cm	IEC 60093
Dielectric Strength (3.00 mm)	19	kV/mm	IEC 60243-1
Comparative Tracking Index	275	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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