

DESOX™ DSC401G6

Polybutylene Terephthalate

DESCO Co., Ltd.

Message:

Descriptions: DESOX™ DSC401G6 is one of the brands which made by PBT(Poly Butylene Terephthalate) that filled Glass Fiber 30% and reinforced goods. It provides good electric property and high mechanical impact.

Applications: DESOX™ DSC401G6 is one of the most-used resin requested for good electrical property and mechanical property goods, such as Bobbin, Housing, Solenoid Bobbin, Ignition Coil goods, etc.

General Information			
Filler / Reinforcement	Glass fabric reinforcement, 30% filler by weight		
Features	Impact resistance, high		
	Good electrical performance		
Uses	Electrical components		
	Shell		
	spool		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.40 - 1.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	127	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	8630	MPa	ASTM D790
Flexural Strength	206	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	220	°C	ASTM D648
1.8 MPa, not annealed	210	°C	ASTM D648
Melting Temperature	222	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	23	kV/mm	ASTM D149
Arc Resistance	80.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Injection	Nominal Value	Unit
Drying Temperature	120 - 140	°C
Drying Time	2.0 - 5.0	hr
Suggested Max Moisture	< 0.20	%
Rear Temperature	230 - 250	°C
Middle Temperature	240 - 260	°C
Front Temperature	250 - 270	°C
Nozzle Temperature	250 - 270	°C
Processing (Melt) Temp	250 - 270	°C
Mold Temperature	50.0 - 100	°C
Injection instructions		

Speed: 40 to 70%Pressure 1st: 30 to 60%Pressure 2nd: 30 to 60Holding Pressure: 10 to 20%

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