

# DESOX™ DSC401G3

Polybutylene Terephthalate

DESCO Co., Ltd.

## Message:

Descriptions: DESOX™ DSC401G3 is one of the brands which made by PBT(Poly Butylene Terephthalate) that filled Glass Fiber 15% and reinforced goods. It provides good electric property and high mechanical impact.

Applications: DESOX™ DSC401G3 is one of the most-used resin requested for good electrical property and mechanical property goods, such as Coil bobbin, Automotive parts and electrical, electronic goods, etc.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Good electrical performance		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Automotive Electronics		
	spool		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.80 - 1.4	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	88.3	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	5100	MPa	ASTM D790
Flexural Strength	147	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	49	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	20	kV/mm	ASTM D149
Arc Resistance	60.0	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 - 245	°C
Middle Temperature	235 - 250	°C
Front Temperature	240 - 260	°C
Nozzle Temperature	240 - 260	°C
Processing (Melt) Temp	240 - 260	°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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#### Recommended distributors for this material

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