

DESOX™ DSC401

Polybutylene Terephthalate

DESCO Co., Ltd.

Message:

Descriptions: DESOX™ DSC401 is PBT(Poly Butylene Terephthalate) unfilled resin which has good electrical property and mechanical property.

Applications: DESOX™ DSC401 is applied to Coil Bobbin, Valve, connector which requested good electrical property and high mechanical property.

General Information			
Features	Good electrical performance		
Uses	Valve/valve components		
	Connector		
	spool		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.7 - 2.3	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	56.9	MPa	ASTM D638
Tensile Elongation (Break)	> 100	%	ASTM D638
Flexural Modulus	2260	MPa	ASTM D790
Flexural Strength	88.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	155	°C	ASTM D648
1.8 MPa, not annealed	60.0	°C	ASTM D648
Melting Temperature	222	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	15	kV/mm	ASTM D149
Arc Resistance	120	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 - 240	°C
Middle Temperature	235 - 245	°C
Front Temperature	240 - 260	°C
Nozzle Temperature	240 - 260	°C
Processing (Melt) Temp	240 - 260	°C
Mold Temperature	40.0 - 80.0	°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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