

# DESOX™ DSC410F

Polybutylene Terephthalate

DESCO Co., Ltd.

## Message:

Descriptions: DESOX™ DSC410F is one of the brands which made by PBT(Poly Butylene Terephthalate) unfilled resin. It provides good electric property and good mechanical strength.

Applications: DESOX™ DSC410F is one of the most-used resin for contact lens molds, etc. which request electric property and mechanical property goods.

General Information			
Features	Good electrical performance		
	Good strength		
Uses	Valve/valve components		
	Connector		
	Mold/Mold/Tool		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	1.2 - 1.5	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	58.8	MPa	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	2750	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	170	°C	ASTM D648
1.8 MPa, not annealed	70.0	°C	ASTM D648
Melting Temperature	222	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	17	kV/mm	ASTM D149
Arc Resistance	75.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	60.0 - 80.0	°C	

Drying Time	3.0 - 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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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

