

# DESOX™ DSC490C

Polycarbonate + PBT

DESCO Co., Ltd.

## Message:

Descriptions: DESOX™ DSC490C is PBT(Poly Butylene Terephthalate) and PC(Poly Carbonate) alloy resin. It provides good electric property and good mechanical strength.

Applications: DESOX™ DSC490C is one of the most-used resin requested for electric property and mechanical property, such as parts of Coil Bobbin, Valve, Connector, etc.

General Information			
Features	Good electrical performance		
	Good strength		
Uses	Valve/valve components		
	Connector		
	spool		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.70 - 1.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	63.7	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	2450	MPa	ASTM D790
Flexural Strength	93.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	690	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	110	°C	ASTM D648
1.8 MPa, not annealed	98.0	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Drying Time	2.0 - 5.0	hr	
Suggested Max Moisture	< 0.20	%	
Rear Temperature	240 - 250	°C	

Middle Temperature	245 - 255	°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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#### Recommended distributors for this material

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