

DESLOY™ DSC903

Polycarbonate

DESCO Co., Ltd.

Message:

Descriptions: DESLOY™ DSC903 is PC(Polycarbonate) resin. It has good electrical property and impact resistance.

Applications: DESLOY™ DSC903 is applied to lamp housing etc. automotive parts and electronic & electrical parts which request static electricity resistance.

General Information			
Additive	Antistatic property		
Features	Antistatic property		
	Impact resistance, good		
	Good electrical performance		
Uses	Electrical/Electronic Applications		
	Application in Automobile Field		
	Shell		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.50 - 0.70	%	
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	63.7	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	2260	MPa	ASTM D790
Flexural Strength	93.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	780	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	138	°C	ASTM D648
1.8 MPa, not annealed	128	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+15	ohms · cm	ASTM D257
Dielectric Strength	30	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.90		ASTM D150
Arc Resistance	120	sec	ASTM D495

Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Drying Time	3.0 - 5.0	hr	
Suggested Max Moisture	< 0.20	%	
Rear Temperature	260 - 270	°C	
Middle Temperature	270 - 285	°C	
Front Temperature	270 - 290	°C	
Nozzle Temperature	270 - 290	°C	
Processing (Melt) Temp	270 - 290	°C	
Mold Temperature	60.0 - 90.0	°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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