

DESLON™ 6 DSC102WG6

Polyamide 6

DESCO Co., Ltd.

Message:

Descriptions: DESLON™ DSC102WG6 is one of the brands which made by Polyamide6 that filled Glass Fiber 30% and good weatherability goods. It provides good mechanical property, fluidity property and injection molding property.

Applications: DESLON™ DSC102WG6 is one of the most-used for high strength, weatherability goods. such as electric and electronic of goods and Coil Bobbin, Lamp Housing, etc.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	High strength		
	Good liquidity		
	Good weather resistance		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Electrical housing		
	Shell		
	spool		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.40 - 0.70	%	
Water Absorption (23°C, 24 hr)	1.3	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	157	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	7350	MPa	ASTM D790
Flexural Strength	216	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	98	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	220	°C	DSC
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	2.0E+12	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.00		ASTM D150
Arc Resistance	160	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 120	°C	
Drying Time	3.0 - 5.0	hr	
Suggested Max Moisture	< 0.20	%	
Rear Temperature	240 - 250	°C	
Middle Temperature	250 - 260	°C	
Front Temperature	250 - 270	°C	
Nozzle Temperature	255 - 270	°C	
Processing (Melt) Temp	255 - 270	°C	
Mold Temperature	80.0 - 100	°C	
Injection instructions			

Speed: 30 to 60%Pressure 1st: 30 to 70%Pressure 2nd: 30 to 70Holding Pressure: 10 to 30%

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