

DESLON™ 6 DSC101M4

Polyamide 6

DESCO Co., Ltd.

Message:

Descriptions: DESLON™ DSC101M4 is Polyamide6 Mineral Filler 20% filled reinforced resin. It provides good mechanical properties and dimensions stability.

Applications: DESLON™ DSC101M4 is one of the most-used for good surface appearance and good dimensions stability goods etc. such as Electronic & Automotive Parts.

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	Good dimensional stability		
	Excellent appearance		
Uses	Electrical/Electronic Applications		
	Application in Automobile Field		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.60 - 0.70	%	
Water Absorption (23°C, 24 hr)	1.4	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	68.6	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	4900	MPa	ASTM D790
Flexural Strength	108	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	205	°C	ASTM D648
1.8 MPa, not annealed	135	°C	ASTM D648
Melting Temperature	220	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14 - 1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.00		ASTM D150
Arc Resistance	190	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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