

# DESLON™ 6 DSC101SM5

Polyamide 6

DESCO Co., Ltd.

## Message:

Descriptions: DESLON™ DSC101SM5 is one of the brands which made by Polyamide6 that filled Mineral Fiber 25% and reinforced resin. It provides good mechanical properties, impact resistance and high strength.

Applications: DESLON™ DSC101SM5 is one of the most-used for Wheel Cover, Cap etc. requested for good mechanical properties ,surface appearance, high strength and high impact resistance.

General Information			
Filler / Reinforcement	Mineral filler, 25% filler by weight		
Features	High strength		
	Impact resistance, high		
	Excellent appearance		
Uses	Application in Automobile Field		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.50 - 0.60	%	
Water Absorption (23°C, 24 hr)	1.3	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	58.8	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	4120	MPa	ASTM D790
Flexural Strength	108	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	195	°C	ASTM D648
1.8 MPa, not annealed	130	°C	ASTM D648
Melting Temperature	220	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12 - 1.0E+14	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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#### 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

