

DESLON™ 6 DSC102G6

Polyamide 6

DESCO Co., Ltd.

Message:

Descriptions: DESLON™ DSC102G6 is one of the brands which made by Polyamide6 that filled Glass Fiber 30% and reinforces goods. It provides good mechanical property, excellent injection molding property and fluidity property.

Applications:DESLON™ DSC102G6 is one of the most-used for high impact resistance and heat-resisting property goods, such as Electronic & Automotive Bracket, Outside Handle Base etc.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Impact resistance, high		
	Good liquidity		
	Heat resistance, high		
Uses	Electrical/Electronic Applications		
	Fasteners		
	Application in Automobile Field		
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	167	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	7850	MPa	ASTM D790
Flexural Strength	235	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	120	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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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

