

DESILON™ 6 DSC101G3

Polyamide 6

DESCO Co., Ltd.

Message:

Descriptions: DESILON™ DSC101G3 is Polyamide6 Glass Fiber 15% filled reinforced resin. It has high mechanical property, good injection molding and fluidity property.

Applications: DESILON™ DSC101G3 can be applied with industrial goods which requested high strength, thermal stable property such as electronic, electric goods and automotive parts of Solenoid Bobbin Housing, Window Regulator Handle etc.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	High strength		
	Good liquidity		
	Thermal stability, good		
Uses	Handle		
	Electrical/Electronic Applications		
	Industrial application		
	Application in Automobile Field		
	Shell		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.80 - 1.1	%	
Water Absorption (23°C, 24 hr)	1.5	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	123	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	5390	MPa	ASTM D790
Flexural Strength	177	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	200	°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

