

DESLON™ 6 DSC121A

Polyamide 6

DESCO Co., Ltd.

Message:

Descriptions: DESLON™ DSC121A is one of the brands which made by Polyamide6 that is unreinforced goods. It provides good abrasion resistance property.

Applications: DESLON™ DSC121A has a good abrasion resistance property and it is used for Bushing, Damper, etc. for automotive parts and industrial products.

General Information			
Features	Good wear resistance		
Uses	Industrial application Application in Automobile Field		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.0 - 1.5	%	
Water Absorption (23°C, 24 hr)	1.4	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	88.3	MPa	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	3240	MPa	ASTM D790
Flexural Strength	118	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	190	°C	ASTM D648
1.8 MPa, not annealed	80.0	°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)	3.00		ASTM D150
Arc Resistance	180	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	Test Method

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 70% Holding Pressure: 10 to 30%

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