

# DESLEN™ DSC501M4

Polypropylene

DESCO Co., Ltd.

## Message:

Descriptions: DESLEN™ DSC501M4 is Polypropylene Mineral Filler 20% reinforced resin. It has good rigidity and heat resistance.

Applications: DESLEN™ DSC501M4 is applied to electronic & electrical parts and air cleaner case which request good moldability, mechanical property and dimensional property .

General Information			
Filler / Reinforcement	Mica filler, 20% filler by weight		
Features	Good dimensional stability		
	Rigidity, high		
	Good formability		
	Heat resistance, high		
Uses	Electrical/Electronic Applications		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	1.3 - 1.4	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	34.3	MPa	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	3140	MPa	ASTM D790
Flexural Strength	53.9	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	140	°C	ASTM D648
1.8 MPa, not annealed	85.0	°C	ASTM D648
Melting Temperature	163	°C	DSC
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	2.0 - 3.0	hr	
Suggested Max Moisture	< 0.20	%	
Rear Temperature	180 - 190	°C	

Middle Temperature	190 - 200	°C
Front Temperature	200 - 210	°C
Nozzle Temperature	210 - 220	°C
Processing (Melt) Temp	270 - 295	°C
Mold Temperature	40.0 - 60.0	°C

#### Injection instructions

Speed: 40 to 70%Pressure 1st: 30 to 60%Pressure 2nd: 30 to 60Holding Pressure: 10 to 20%

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#### Recommended distributors for this material

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