

Modified Plastics MPP-S1

Polypropylene
Modified Plastics, Inc.

Message:
Modified Plastics MPP-S1 is a Polypropylene product. It can be processed by injection molding and is available in North America. Primary characteristic: moisture resistant.

General Information			
Features	Low to No Water Absorption		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.908	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.5	%	ASTM D955
Water Absorption (24 hr)	5.0E-3	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	34.5	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Strength (Yield)	48.3	MPa	ASTM D790
Compressive Strength	46.9	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	21	J/m	ASTM D256
Unnotched Izod Impact (23°C, 6.35 mm)	850	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	118	°C	
1.8 MPa, Unannealed	98.9	°C	
CLTE - Flow	6.8E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.12	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	ASTM D257
Dielectric Strength	26	kV/mm	ASTM D149
Dielectric Constant	2.25		ASTM D150
Dissipation Factor	2.0E-4		ASTM D150
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Processing (Melt) Temp	163	°C	
Mold Temperature	32.2 to 65.6	°C	

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Recommended distributors for this material

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