

Modified Plastics MPP-S1

Modified Plastics, Inc. - Polypropylene

General Information

General

Features	<ul style="list-style-type: none"> • Low to No Water Absorption
Forms	<ul style="list-style-type: none"> • Pellets
Processing Method	<ul style="list-style-type: none"> • Injection Molding

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.910		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.015	in/in	ASTM D955
Water Absorption (24 hr)	5.0E-3	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	5000	psi	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Strength (Yield)	7000	psi	ASTM D790
Compressive Strength	6800	psi	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.250 in)	0.40	ft-lb/in	ASTM D256
Unnotched Izod Impact (73°F, 0.250 in)	16	ft-lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	245	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	210	°F	ASTM D648
CLTE - Flow	3.8E-5	in/in/°F	ASTM D696
Thermal Conductivity	0.85	Btu·in/hr/ft ² /°F	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength	670	V/mil	ASTM D149
Dielectric Constant	2.25		ASTM D150
Dissipation Factor	2.0E-4		ASTM D150

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Processing (Melt) Temp	325	°F
Mold Temperature	90 to 150	°F