Modified Plastics MN 6/6-FG 10

Modified Plastics, Inc. - Polyamide 66

General Information

General	
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Forms	• Pellets
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.22		ASTM D792
Molding Shrinkage - Flow	0.017	in/in	ASTM D955
Water Absorption (24 hr)	1.3	%	ASTM D570
Water Absorption (Saturation)	7.6	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	13000	psi	ASTM D638
Tensile Elongation (Yield)	3.5	%	ASTM D638
Flexural Modulus	660000	psi	ASTM D790
Flexural Strength (Yield)	20000	psi	ASTM D790
Compressive Strength	17000	psi	ASTM D695
Shear Strength	9000	psi	ASTM D732
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.250 in)	0.70	ft·lb/in	ASTM D256
Unnotched Izod Impact (73°F, 0.250 in)	5.0	ft·lb/in	ASTM D4812
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	120		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	495	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	480	°F	
Vicat Softening Temperature	509	°F	ASTM D1525
CLTE - Flow	2.5E-5	in/in/°F	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	550	V/mil	ASTM D149
Dielectric Constant			ASTM D150
100 Hz	4.10		
1 kHz	1.90		
1 MHz	3.70		
Dissipation Factor (1 kHz)	0.030		ASTM D150

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	200	°F
Processing (Melt) Temp	520 to 560	°F
Mold Temperature	200 to 220	°F