Modified Plastics MN 6/6-FG 40

Modified Plastics, Inc. - Polyamide 66

General Information

General	
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight
Forms	• Pellets
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.46		ASTM D792
Molding Shrinkage - Flow	4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.70	%	ASTM D570
Water Absorption (Saturation)	3.2	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	31500	psi	ASTM D638
Tensile Elongation (Yield)	2.0	%	ASTM D638
Flexural Modulus	1.65E+6	psi	ASTM D790
Flexural Strength (Yield)	41000	psi	ASTM D790
Compressive Strength	24000	psi	ASTM D695
Shear Strength	12000	psi	ASTM D732
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.250 in)	2.5	ft·lb/in	ASTM D256
Unnotched Izod Impact (73°F, 0.250 in)	18	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)	500	°F	ASTM D648
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	490	°F	
CLTE - Flow	1.5E-5	in/in/°F	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	500	V/mil	ASTM D149
Dielectric Constant			ASTM D150
100 Hz	4.30		
1 kHz	3.85		
1 MHz	0.00800		
Dissipation Factor			ASTM D150
100 Hz	0.012		
1 kHz	0.015		
1 MHz	0.019		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	200	°F

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Injection	Nominal Value	Unit
Processing (Melt) Temp	540	°F
Mold Temperature	200 to 250	°F