

# Modified Plastics MN 6/6-FG 30

Modified Plastics, Inc. - Polyamide 66

## General Information

General	
Filler / Reinforcement	<ul style="list-style-type: none"> <li>Glass Fiber, 30% Filler by Weight</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

## Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.37		ASTM D792
Molding Shrinkage - Flow	6.0E-3 to 7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Water Absorption (Saturation)	3.1	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	25300	psi	ASTM D638
Tensile Elongation (Yield)	3.5	%	ASTM D638
Flexural Modulus	1.20E+6	psi	ASTM D790
Flexural Strength (Yield)	37000	psi	ASTM D790
Compressive Strength	23400	psi	ASTM D695
Shear Strength	11500	psi	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.250 in)	1.9	ft-lb/in	ASTM D256
Unnotched Izod Impact (73°F, 0.250 in)	16	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 264 psi, Unannealed	490	°F	ASTM D648
CLTE - Flow	1.9E-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	4.20		
1 kHz	3.80		
1 MHz	3.85		
Dissipation Factor (1 MHz)	0.018		ASTM D150

## Processing Information

Injection	Nominal Value	Unit
Drying Temperature	200	°F
Processing (Melt) Temp	530 to 580	°F
Mold Temperature	225 to 250	°F