

Modified Plastics MN 6/6-FG 20

Modified Plastics, Inc. - Polyamide 66

General Information

General	
Filler / Reinforcement	<ul style="list-style-type: none"> Glass Fiber, 20% Filler by Weight
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	1.29		ASTM D792
Molding Shrinkage - Flow	7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	1.1	%	ASTM D570
Water Absorption (Saturation)	5.3	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	18200	psi	ASTM D638
Tensile Elongation (Yield)	3.5	%	ASTM D638
Flexural Modulus	800000	psi	ASTM D790
Flexural Strength (Yield)	28000	psi	ASTM D790
Compressive Strength	22300	psi	ASTM D695
Shear Strength	10000	psi	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.250 in)	1.1	ft-lb/in	ASTM D256
Unnotched Izod Impact (73°F, 0.250 in)	7.0	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)	500	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Unannealed	485	°F	ASTM D648
CLTE - Flow	2.2E-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	2.10		
1 MHz	3.80		
Dissipation Factor (1 MHz)	0.020		ASTM D150

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	200	°F
Processing (Melt) Temp	520 to 570	°F
Mold Temperature	200 to 225	°F