

Modified Plastics MN 6/6-FG 40

Polyamide 66
Modified Plastics, Inc.

Message:
Modified Plastics MN 6/6-FG 40 is a Polyamide 66 (Nylon 66) product filled with 40% glass fiber. It can be processed by injection molding and is available in North America.

General Information			
UL YellowCard	E78964-250217		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.40	%	ASTM D955
Water Absorption			ASTM D570
24 hr	0.70	%	
Saturation	3.2	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	217	MPa	ASTM D638
Tensile Elongation (Yield)	2.0	%	ASTM D638
Flexural Modulus	11400	MPa	ASTM D790
Flexural Strength (Yield)	283	MPa	ASTM D790
Compressive Strength	165	MPa	ASTM D695
Shear Strength	82.7	MPa	ASTM D732
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 6.35 mm)	130	J/m	ASTM D256
Unnotched Izod Impact (23°C, 6.35 mm)	960	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	260	°C	
1.8 MPa, Unannealed	254	°C	
CLTE - Flow	2.7E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	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	

Injection	Nominal Value	Unit
Drying Temperature	93.3	°C
Processing (Melt) Temp	282	°C
Mold Temperature	93.3 to 121	°C

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