

Clariant Nylon 6/6 PA-113M40W

Polyamide 66
Clariant Corporation

Message:

Clariant Nylon 6/6 PA-113M40W is a Polyamide 66 (Nylon 66) material filled with 40% mineral. It is available in North America for injection molding. Primary attribute of Clariant Nylon 6/6 PA-113M40W: Flame Rated.
Typical applications include:
Automotive
Wire & Cable

General Information			
Filler / Reinforcement	Mineral,40% Filler by Weight		
Agency Ratings	UL 94		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	ASTM D792
Water Absorption (24 hr)	0.80	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	95		
R-Scale	120		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	89.6	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	5860	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	249	°C	
1.8 MPa, Unannealed	238	°C	
Melting Temperature	256	°C	
CLTE - Flow	3.6E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	93.3	°C	

Drying Time	2.0 to 4.0	hr
Rear Temperature	266 to 293	°C
Middle Temperature	266 to 293	°C
Front Temperature	266 to 293	°C
Processing (Melt) Temp	266 to 288	°C
Mold Temperature	65.6 to 93.3	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	20 to 100	rpm

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Recommended distributors for this material

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