

Clariant Nylon 6/6 PA-111N40

Polyamide 66
Clariant Corporation

Message:

Clariant Nylon 6/6 PA-111N40 is a polyamide 66 (nylon 66) material, which contains 15% glass fiber reinforced materials and 25% mineral fillers. This product is available in North America and is processed by injection molding.

The main features of Clariant Nylon 6/6 PA-111N40 are:

- flame retardant/rated flame
- Flame Retardant
- Low shrinkage
- high strength
- Good processability

Typical application areas include:

- Wire and cable
- marine applications
- building applications
- military applications
- Automotive Industry

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight Mineral filler, 25% filler by weight
Features	Good dimensional stability Low warpage Rigidity, high High strength Antistatic property Workability, good Good corrosion resistance Good coloring Good chemical resistance Good toughness Low shrinkage Low or no water absorption Flame retardancy
Uses	Ship application Architectural application field Metal substitution Military application Application in Automobile Field Sporting goods Medical/nursing supplies

Agency Ratings	UL 94		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.35	%	ASTM D955
Water Absorption (24 hr)	0.70	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
Class m	98		ASTM D785
Class r	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	145	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	214	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	254	°C	ASTM D648
1.8 MPa, not annealed	239	°C	ASTM D648
CLTE - Flow	3.8E-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	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	266 - 293	°C	
Middle Temperature	266 - 293	°C	
Front Temperature	266 - 293	°C	
Processing (Melt) Temp	266 - 288	°C	
Melt Temperature (Aim)	274	°C	
Mold Temperature	65.6 - 93.3	°C	
Injection Rate	Fast		
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	20 - 100	rpm	

Cushion	3.18 - 6.35	mm
Injection instructions		
Injection Pressure: Use minimum pressure to achieve 95% fill during the boost inj. pressure phase.Hold Pressure: 30% to 75% of injection pressure.Mold Temp. Target: 180°FScrew Speed Target: 75 RPM		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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