

Clariant Nylon 6/6 PA-113

Polyamide 66
Clariant Corporation

Message:

Clariant Nylon 6/6 PA-113 is a polyamide 66 (nylon 66) material. This product is available in North America and is processed by injection molding. The main features of Clariant Nylon 6/6 PA-113 are:
flame retardant/rated flame
Flame Retardant
high strength
Good processability
Corrosion resistance
Typical application areas include:
engineering/industrial accessories
Wire and cable
military applications
Automotive Industry
Sporting goods

General Information			
Additive	heat stabilizer		
Features	High strength		
	Workability, good		
	Good corrosion resistance		
	Good coloring		
	Good chemical resistance		
	Good wear resistance		
	Thermal Stability		
	Good toughness		
	Low or no water absorption		
Uses	Flame retardancy		
	Gear		
	Metal substitution		
	Military application		
	Sporting goods		
	Cam		
	Medical/nursing supplies		
Agency Ratings	Bearing		
	UL 94		
	Particle		
Forms	Injection molding		
Processing Method			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792

Molding Shrinkage - Flow (3.18 mm)	1.7	%	ASTM D955
Water Absorption (24 hr)	1.2	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	82.7	MPa	ASTM D638
Tensile Elongation (Yield)	60	%	ASTM D638
Flexural Modulus	2830	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	235	°C	ASTM D648
1.8 MPa, not annealed	76.7	°C	ASTM D648
CLTE - Flow	7.7E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength	18	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-2		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. phase.Hold Pressure: 30% to 75% of injection pressure.Mold Temp. Target: 180°F Screw Speed Target: 75 RPM

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