Clariant Nylon 6/6 PA-121G13

Polyamide 66

Clariant Corporation

Message:

Clariant Nylon 6/6 PA-121G13 is a polyamide 66 (nylon 66) material, which contains a 13% glass fiber reinforced material. This product is available in North America and is processed by injection molding.

The main features of Clariant Nylon 6/6 PA-121G13 are:

flame retardant/rated flame

Impact modification

high strength

Hard

Good dimensional stability

Typical application areas include:

Wire and cable

Tools

home apps

Automotive Industry

General Information					
Filler / Reinforcement	Glass fiber reinforced material, 13% filler by weight				
Additive	Impact modifier				
Features	Good dimensional stability				
	Impact modification				
	Rigidity, high				
	Rigid, good				
	High strength				
	Good toughness				
Uses	Lawn and Garden Equipment				
	Power/other tools				
Agency Ratings	UL 94				
Forms	Particle				
Processing Method	Injection molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.18	g/cm³	ASTM D792		
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955		
Water Absorption (24 hr)	0.80	%	ASTM D570		
Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness			ASTM D785		
Class m	90		ASTM D785		
Class r	120		ASTM D785		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength	89.6	MPa	ASTM D638		

Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	3790	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	249	°C	ASTM D648
1.8 MPa, not annealed	227	°C	ASTM D648
Melting Temperature	254	°C	
CLTE - Flow	5.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	21	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	НВ		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	2.10 6.35		
	3.18 - 6.35	mm	

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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