Clariant Nylon 6/6 PA-111G43

Polyamide 66

Clariant Corporation

Message:

Clariant Nylon 6/6 PA-111G43 is a polyamide 66 (nylon 66) material, which contains a 43% 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-111G43 are:

flame retardant/rated flame

high strength

Good stiffness

Typical application areas include:

Wire and cable

engineering/industrial accessories

industrial applications

Automotive Industry

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 43% filler by weight			
Features	Rigid, good			
	High strength			
Uses	Gear			
	Industrial application			
	Application in Automobile Field			
Agency Ratings	UL 94			
Forms	Particle			
Processing Method	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	1.47	g/cm³	ASTM D792	
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955	
Water Absorption (24 hr)	0.40	%	ASTM D570	
Hardness	Nominal Value	Unit	Test Method	
Rockwell Hardness			ASTM D785	
Class m	97		ASTM D785	
Class r	121		ASTM D785	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Strength	207	MPa	ASTM D638	
Tensile Elongation (Break)	3.0	%	ASTM D638	
Flexural Modulus	11000	MPa	ASTM D790	
Flexural Strength	283	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (3.18 mm)	130	J/m	ASTM D256	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	266	°C	ASTM D648
1.8 MPa, not annealed	257	°C	ASTM D648
Melting Temperature	255	°C	
CLTE - Flow	2.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	22	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	

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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