Clariant Nylon 6/6 PA-111GF30 TF15

Polyamide 66

Clariant Corporation

Message:

Clariant Nylon 6/6 PA-111GF30 TF15 is a polyamide 66 (nylon 66) material, which contains a 30% 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-111GF30 TF15 are:

flame retardant/rated flame

Flame Retardant

high strength

Good processability

Hard

Typical application areas include: engineering/industrial accessories

Wire and cable

Tools

military applications

Sporting goods

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Additive	PTFE lubricant (15%)
Features	Low friction coefficient
	Rigidity, high
	Rigid, good
	High strength
	Workability, good
	Good corrosion resistance
	Good coloring
	Good chemical resistance
	Good wear resistance
	Good toughness
	Lubrication
	Low or no water absorption
	Flame retardancy
Uses	Gear
	Power/other tools
	Metal substitution
	Military application
	Sporting goods
	Cam
	Medical/nursing supplies

Agency Ratings	UL 94		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
Class m	94		ASTM D785
Class r	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	162	МРа	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	9310	MPa	ASTM D790
Flexural Strength	217	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	260	°C	ASTM D648
1.8 MPa, not annealed	254	°C	ASTM D648
CLTE - Flow	4.3E-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	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	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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