

Clariant Nylon 6/6 PA-111G33C

Polyamide 66
Clariant Corporation

Message:

Clariant Nylon 6/6 PA-111G33C is a polyamide 66 (nylon 66) material, which contains a 33% 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-111G33C are:
flame retardant/rated flame
Lubrication
The typical application field of Clariant Nylon 6/6 PA-111G33C is: wire and cable

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 33% filler by weight		
Additive	Molybdenum disulfide lubricant		
Features	Lubrication		
Agency Ratings	UL 94		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
Class m	97		ASTM D785
Class r	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	172	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	262	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	96	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	246	°C	ASTM D648
CLTE - Flow	2.0E-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°F Screw Speed Target: 75 RPM

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT