Clariant Nylon 6/6 PA-113G43

Polyamide 66

Clariant Corporation

Message:

Clariant Nylon 6/6 PA-113G43 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-113G43 are:
flame retardant/rated flame
Flame Retardant
high strength
Good processability
Hard
Typical application areas include:
industrial applications
Wire and cable
military applications
Automotive Industry
Sporting goods

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 43% filler by weight
Additive	heat stabilizer
Features	Rigidity, high Rigid, good High strength Workability, good Good corrosion resistance Good coloring Good chemical resistance Thermal Stability Good toughness Low or no water absorption Flame retardancy
Uses	Industrial application Industrial castings Metal substitution Military application Application in Automobile Field Sporting goods Medical/nursing supplies
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
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	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°FScrew Speed Target: 75 RPM

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