Clariant Nylon 6 PA-211GF30 TF15

Polyamide 6

Clariant Corporation

Message:

Clariant Nylon 6 PA-211GF30 TF15 is a polyamide 6 (nylon 6) 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 PA-211GF30 TF15 are:
flame retardant/rated flame
Flame Retardant
high strength
Good processability
Hard
Typical application areas include:
engineering/industrial accessories
Wire and cable
military applications
Sporting goods
medical/health care

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Additive	PTFE lubricant (15%)
Features	Good dimensional stability 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 Flame retardancy
Uses	Gear 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)	0.85	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
Class m	88		ASTM D785
Class r	123		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	131	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	8620	MPa	ASTM D790
Flexural Strength	228	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	100	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	213	°C	ASTM D648
1.8 MPa, not annealed	204	°C	ASTM D648
CLTE - Flow	3.6E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength	20	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	249 - 274	°C	
Middle Temperature	249 - 274	°C	
Front Temperature	249 - 274	°C	
Processing (Melt) Temp	254 - 271	°C	
Melt Temperature (Aim)	266	°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

Recommended distributors for this material

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