Clariant Nylon 6 PA-211CF30

Polyamide 6

Clariant Corporation

Message:

Clariant Nylon 6 PA-211CF30 is a polyamide 6 (nylon 6) material, which contains a 30% carbon fiber reinforced material. This product is available in North America and is processed by injection molding.

The main features of the Clariant Nylon 6 PA-211CF30 are:

flame retardant/rated flame

Flame Retardant

Conductivity

high strength

Good processability

Typical application areas include:

Wire and cable

military applications

business/office supplies

Sporting goods

medical/health care

General Information										
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight									
Features	Good dimensional stability									
	Conductivity									
	Rigidity, high									
	Rigid, good High strength Workability, good Good corrosion resistance Good coloring Good chemical resistance Good toughness									
							Flame retardancy			
						Uses	Metal substitution			
							Military application			
							Business equipment			
							Sporting goods			
Medical/nursing supplies										
Agency Ratings	UL 94									
Forms	Particle									
Processing Method	Injection molding									
Physical	Nominal Value	Unit	Test Method							
Specific Gravity	1.28	g/cm³	ASTM D792							

Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.80	%	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	224	МРа	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	15200	МРа	ASTM D790
Flexural Strength	310	МРа	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	216	°C	ASTM D648
1.8 MPa, not annealed	216	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+3	ohms·cm	ASTM D257
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	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

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