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	MPa	ASTM D790
Flexural Strength	310	MPa	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	МРа	
Screw Speed	20 - 100	rpm	
Cushion	3.18 - 6.35	mm	
Injection instructions	3.18 - 6.35	mm	

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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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

