Clariant Nylon 6/6 PA-111TF20

Polyamide 66

Clariant Corporation

Message:

Clariant Nylon 6/6 PA-111TF20 is a polyamide 66 (nylon 66) material. This product is available in North America and is processed by injection molding. The main features of Clariant Nylon 6/6 PA-111TF20 are:

Flame Retardant

high strength

Good processability

Hard

Corrosion resistance

Typical application areas include:

engineering/industrial accessories

Wire and cable

military applications

Sporting goods

medical/health care

General Information								
Additive	PTFE lubricant (20%)							
Features	Low friction coefficient							
	Rigidity, high							
	High strength							
	Workability, good							
	Good corrosion resistance							
	Good coloring							
	Good chemical resistance							
	Good wear resistance							
	Good toughness Lubrication Low or no water absorption							
						Flame retardancy		
Uses	Gear							
	Metal substitution							
	Military application							
	Sporting goods							
	Cam							
	Medical/nursing supplies							
Acaray Datings	111.04							
Agency Ratings	UL 94							
Forms	Particle							
Processing Method	Injection molding							
Physical	Nominal Value	Unit	Test Method					

1.26	g/cm³	ASTM D792
1.5	%	ASTM D955
1.0	%	ASTM D570
Nominal Value	Unit	Test Method
114		ASTM D785
Nominal Value	Unit	Test Method
62.1	MPa	ASTM D638
40	%	ASTM D638
2550	MPa	ASTM D790
89.6	MPa	ASTM D790
Nominal Value	Unit	Test Method
37	J/m	ASTM D256
Nominal Value	Unit	Test Method
		ASTM D648
238	°C	ASTM D648
104	°C	ASTM D648
8.3E-5	cm/cm/°C	ASTM D696
Nominal Value	Unit	Test Method
1.0E+14	ohms·cm	ASTM D257
19	kV/mm	ASTM D149
Nominal Value	Unit	
79.4	°C	
2.0 - 4.0	hr	
0.20	%	
266 - 293	°C	
266 - 293	°C	
266 - 293	°C	
266 - 288	°C	
274	°C	
65.6 - 93.3	°C	
65.6 - 93.3 Fast	°C	
	°C MPa	
Fast		
	1.5 1.0 Nominal Value 114 Nominal Value 62.1 40 2550 89.6 Nominal Value 37 Nominal Value 238 104 8.3E-5 Nominal Value 1.0E+14 19 Nominal Value 79.4 2.0 - 4.0 0.20 266 - 293 266 - 293 266 - 293 266 - 293	1.5 % 1.0 % Nominal Value Unit 114 Nominal Value Unit 62.1 MPa 40 % 2550 MPa 89.6 MPa Nominal Value Unit 37 J/m Nominal Value Unit 238 °C 104 °C 8.3E-5 cm/cm/°C Nominal Value Unit 1.0E+14 ohms·cm 19 kV/mm Nominal Value Unit 79.4 °C 2.0 - 4.0 hr 0.20 % 266 - 293 °C 266 - 293 °C

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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