Clariant Nylon 6 PA-212

Polyamide 6

Clariant Corporation

Message:

Clariant Nylon 6 PA-212 is a polyamide 6 (nylon 6) material. This product is available in North America and is processed by injection molding.
The main features of the Clariant Nylon 6 PA-212 are:
flame retardant/rated flame
Low shrinkage
high strength
Good processability
Hard
Typical application areas include:
Electrical/electronic applications
Wire and cable
engineering/industrial accessories
military applications
Sporting goods

General Information	
Features	Nucleated
	Good dimensional stability
	Rigidity, high
	High strength
	Homopolymer
	Workability, good
	Fast molding cycle
	Good corrosion resistance
	Good coloring
	Good chemical resistance
	Good toughness
	Low shrinkage
Uses	Gear
	Electrical components
	Metal substitution
	Military application
	Connector
	Sporting goods
	Medical/nursing supplies
Agency Ratings	UL 94
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method

Specific Gravity	1.14	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.90	%	ASTM D955
Water Absorption (24 hr)	1.6	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
Class m	85		ASTM D785
Class r	120		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength	89.6	MPa	ASTM D638
Tensile Elongation (Yield)	15	%	ASTM D638
Flexural Modulus	3100	MPa	ASTM D790
Flexural Strength	117	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	43	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	73.9	°C	ASTM D648
Melting Temperature	216	°C	
CLTE - Flow	8.1E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+13	ohms·cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.59 mm)	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

infringement occurs, please contact us immediately.

Recommended distributors for this material

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