

Clariant Nylon 6 PA-213XO32

Polyamide 6
Clariant Corporation

Message:

Clariant Nylon 6 PA-213XO32 is a polyamide 6 (nylon 6) material. This product is available in North America and is processed by extrusion or injection molding.

The main features of the Clariant Nylon 6 PA-213XO32 are:

flame retardant/rated flame

Copolymer

Homopolymer

Good toughness

Good flexibility

Typical application areas include:

Wire and cable

Hose

Conveyor Belt

General Information	
Additive	heat stabilizer
Features	Copolymer
	Homopolymer
	Good flexibility
	Thermal Stability
	Good toughness
Uses	Conveyor accessories
	Cable sheath
	Pipe fittings
Agency Ratings	UL 94
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.4	%	ASTM D955
Water Absorption (24 hr)	2.2	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	60		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	54.5	MPa	ASTM D638
Tensile Elongation (Yield)	200	%	ASTM D638
Flexural Modulus	1650	MPa	ASTM D790

Flexural Strength	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.318 mm)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	54.4	°C	ASTM D648
Melting Temperature	216	°C	
CLTE - Flow	1.1E-4	cm/cm/°C	ASTM D696
Flammability	Nominal Value		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°F Screw Speed Target: 75 RPM

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