

Nypol® PA A3 T30 N1 NTLA014 NR453

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 natural with 30% mineral reinforced, with graphite additive, lubricated, good resistance to wear and good set of thermal properties, electrical and mechanical. Ideal for injection molding.

General Information				
Filler / Reinforcement		Mineral,30% Filler by Weight		
Additive		Graphite Powder Lubricant		
Features		Good Wear Resistance		
		Lubricated		
Appearance		Natural Color		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		>PA66 MD30<		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.34 to 1.36	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow (2.00 mm)	0.20	--	%	ASTM D955
Water Absorption				ASTM D570
24 hr	1.2	--	%	
Saturation	7.5	--	%	
Ash Content	28 to 32	--	%	ASTM D2584
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	85.0	55.0	MPa	ASTM D638
Tensile Elongation (Break)	6.0	8.0	%	ASTM D638
Flexural Modulus	6000	2600	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	11	9.0	kJ/m ²	
23°C	18	32	kJ/m ²	
Unnotched Izod Impact (Area)				ASTM D256
-30°C	--	8.00	kJ/m ²	
	15.0			
23°C	10.0	31.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648

0.45 MPa, Unannealed	240	--	°C	
1.8 MPa, Unannealed	209	--	°C	
Melting Temperature	250 to 265	--	°C	ASTM D2117
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Suggested Max Moisture	0.20		%	
Processing (Melt) Temp	250 to 275		°C	
Mold Temperature	60.0 to 80.0		°C	

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