

Nypol® PA A3 G30 HL CNZA178 NR466 MSP

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 in gray color reinforced with 30% of fiberglass, lubricated and improved flow. Good set of thermal and mechanical properties. Ideal for injection molding.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Appearance		Grey		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		>PA 6.6 GF30<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36 to 1.38	--	g/cm ³	ISO 1183
Molding Shrinkage (3.20 mm)	0.30	--	%	ISO 294-4
Water Absorption				ISO 62
Saturation, 23°C	6.0	--	%	
Equilibrium, 23°C, 50% RH	1.9	--	%	
Ash Content	28.0 to 32.0	--		ISO 1172
Relative Viscosity - Formic Acid	46.0 to 52.0	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9700	7000	MPa	ISO 527-2
Tensile Stress	200	135	MPa	ISO 527-2
Tensile Strain (Break)	3.2	5.0	%	ISO 527-2
Flexural Modulus	12200	6500	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength				
23°C	--	14	kJ/m ²	ISO 180/1A
23°C	11	--	kJ/m ²	ISO 180/2A
Unnotched Izod Impact Strength				ISO 180/1U
-30°C	--	70	kJ/m ²	
23°C	> 70	> 70	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A

Melting Temperature (DSC)	250 to 265	--	°C	ISO 3146
Injection	Dry	Unit		
Drying Temperature	90.0		°C	
Drying Time	4.0		hr	
Processing (Melt) Temp	270 to 285		°C	
Mold Temperature	70.0 to 90.0		°C	

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