

Nypol® PA A3 G30 HS UV RH NTLA013 NR414

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 slightly greenish natural reinforced with 30% of fiberglass, heat stabilized, resistance to hydrolysis and UV. Good set of thermal properties, electrical and mechanical. Ideal for injection molding.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Electrical Properties		
		Good UV Resistance		
		Heat Stabilized		
		Hydrolysis Resistant		
Appearance		Green		
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 - Flow (3.20 mm)	0.30	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 2.00 mm, 50% RH)	1.5	--	%	ISO 62
Relative Viscosity ¹	46.0 to 52.0	--		
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	230	150	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress (Break)	200	135	MPa	ISO 527-2
Tensile Strain (Break)	3.2	5.0	%	ISO 527-2
Flexural Modulus	12200	6500	MPa	ISO 178
Flexural Stress	290	210	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	--	70	kJ/m ²	
23°C	12	16	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	--	70	kJ/m ²	
23°C	11	14	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (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	100 to 110		°C	
NOTE				
1.	Formic Acid			

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