

Nypol® PA A3 G30 HS AML0254 NR429

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 in color yellow reinforced with 30% of fiberglass, term stabilized. Good set of thermal and mechanical properties. Ideal for injection molding.

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Additive	Heat Stabilizer			
Features	Heat Stabilized			
Appearance	Yellow			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	>PA 66 GF30<			
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.36 to 1.38	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.30	--	%	ASTM D955
Water Absorption				ASTM D570
Saturation	6.0	--	%	
Equilibrium	1.9	--	%	
Ash Content	28 to 32	--	%	ASTM D2584
Relative Viscosity - Formic Acid	46.0 to 52.0	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9700	7000	MPa	ASTM D638
Tensile Strength	200	135	MPa	ASTM D638
Tensile Elongation (Break)	3.2	5.0	%	ASTM D638
Flexural Modulus	12200	6500	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	16	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength				ISO 179
-30°C	--	70	kJ/m ²	
23°C	> 70	> 70	kJ/m ²	
Notched Izod Impact (Area) (23°C)	11.0	14.0	kJ/m ²	ASTM D256
Unnotched Izod Impact (Area)				ASTM D256
-30°C	--	70.0	kJ/m ²	
23°C	> 70.0	> 70.0	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	260	--	°C	
1.8 MPa, Unannealed	250	--	°C	
Melting Temperature	250 to 265	--	°C	ASTM D2117
Flammability	Dry	Conditioned		Test Method
Flame Rating	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	90.0		°C	
Drying Time	4.0		hr	
Processing (Melt) Temp	270 to 285		°C	
Mold Temperature	80.0 to 90.0		°C	

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