

Nypol® PA A3 G30 HS UV RH PRTA011 NR393

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 in black color reinforced with 30% of fiberglass, heat stabilized, resistant ethylene glycol 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		Glycol Resistant		
		Good UV Resistance		
		Heat Stabilized		
		Hydrolysis Resistant		
Appearance		Black		
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	0.30	--	%	ASTM D955
Water Absorption (Equilibrium, 50% RH)	1.5	--	%	ASTM D570
Relative Viscosity - Formic Acid	46.0 to 52.0	--		
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	230	150	MPa	ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	200	135	MPa	ASTM D638
Tensile Elongation (Break)	3.2	5.0	%	ASTM D638
Flexural Modulus	12200	6500	MPa	ASTM D790
Flexural Strength	210	190	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	16	kJ/m ²	ASTM D256
Charpy Unnotched Impact Strength				ISO 179
-30°C	--	70	kJ/m ²	
23°C	70	85	kJ/m ²	
Notched Izod Impact (Area)				ASTM D256
-30°C	10.0	10.0	kJ/m ²	

23°C	11.0	14.0	kJ/m ²	
Unnotched Izod Impact (Area) (-30°C)	--	70.0	kJ/m ²	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	--	250	°C	ASTM D648
Melting Temperature	250 to 265	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	> 1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+11	> 1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	36	29	kV/mm	ASTM D149
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.710 mm	--	HB		
1.50 mm	--	HB		
3.00 mm	--	HB		
Injection	Dry	Unit		
Drying Temperature	90.0		°C	
Drying Time	4.0		hr	
Processing (Melt) Temp	270 to 290		°C	
Mold Temperature	60.0 to 90.0		°C	

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