

Nypol® PA A3 G50 HS UV RH PRTA011 NR416

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 in black color reinforced with 50% 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,50% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Electrical Properties		
		Good UV Resistance		
		Heat Stabilized		
		Hydrolysis Resistant		
Appearance		Black		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		>PA 6.6 GF50<		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.56	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.20 mm)	0.20	--	%	ISO 294-4
Water Absorption				ISO 62
Saturation, 23°C	4.1	--	%	
Equilibrium, 23°C, 50% RH	1.2	--	%	
Ash Content	48 to 52	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16800	12900	MPa	ISO 527-2/2
Tensile Stress				
Yield	250	200	MPa	ISO 527-2/2
Break	260	205	MPa	ISO 527-2/1/5
Tensile Strain (Break)	2.7	3.5	%	ISO 527-2/2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	16	15	kJ/m ²	
23°C	17	19	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	95	kJ/m ²	
23°C	110	120	kJ/m ²	

Notched Izod Impact Strength (23°C)	18	20	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (-30°C)	15	15	kJ/m ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	262	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	257	--	°C	ISO 75-2/A
Vicat Softening Temperature	254	--	°C	ISO 306/B
Melting Temperature (DSC)	250 to 265	--	°C	ISO 3146
CLTE				ASTM E831
Flow	1.4E-5	--	cm/cm/°C	
Transverse	7.2E-5	--	cm/cm/°C	
Flammability	Dry	Conditioned		Test Method
Flame Rating				UL 94
0.800 mm	HB	--		
1.60 mm	HB	--		
Injection	Dry	Unit		
Drying Temperature	90.0		°C	
Drying Time	4.0 to 6.0		hr	
Processing (Melt) Temp	285 to 295		°C	
Mold Temperature	100 to 110		°C	

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