

Nypol® PA A3 G38 HS UV RH PRTA011 NR447

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 in color black reinforced with 38% of fiberglass, heat stabilized, resistivity hydrolysis and UV good set of thermal and mechanical properties. Ideal for injection molding.

General Information			
Filler / Reinforcement	Glass Fiber,38% Filler by Weight		
Additive	Heat Stabilizer		
	Hydrolysis Resistant		
	UV Stabilizer		
Features	Good UV Resistance		
	Heat Stabilized		
	Hydrolysis Resistant		
Appearance	Black		
Processing Method	Injection Molding		
Resin ID (ISO 1043)	>PA 6.6 GF38<		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.80	%	ASTM D955
Water Absorption (Saturation)	0.70	%	ASTM D570
Ash Content	36 to 40	%	ASTM D2584
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	124	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	6620	MPa	ASTM D790
Flexural Strength	183	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	48	J/m	ASTM D256
Unnotched Izod Impact	690	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	255	°C	
1.8 MPa, Unannealed	235	°C	
Melting Temperature	250 to 265	°C	ASTM D2117

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·cm	ASTM D257
Dielectric Strength	16	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	260 to 285	°C	
Mold Temperature	80.0 to 120	°C	

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