

Nypol® PA A3 G30 HS UV RH PRT0327 NR407

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 in black color 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		Black		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		>PA 6.6 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)	0.60	--	%	ASTM D570
Relative Viscosity ¹	46.0 to 52.0	--		
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
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	16	kJ/m ²	ASTM D256
Charpy Unnotched Impact Strength (-30°C)	--	70	kJ/m ²	ASTM D256
Notched Izod Impact (Area) (23°C)	11.0	14.0	kJ/m ²	ASTM D256
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
Peak Melting Temperature	250 to 265	--	°C	ASTM D2117
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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

