

Nypol® PA B3 G63 HS PRTA012 NT380

Polyamide 6

Petropol Industry and Trade of Polymers LTDA

Message:

Black polyamide 6 with 63% glass fibers, thermally stable, has good set of thermal and mechanical properties. Ideal for injection molding.

General Information				
Filler / Reinforcement		Glass Fiber,63% Filler by Weight		
Features		Good Thermal Stability		
Appearance		Black		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.73 to 1.75	--	g/cm ³	ISO 1183
Molding Shrinkage	0.10 to 0.20	--	%	ISO 294-4
Water Absorption				
Saturation	4.4	--	%	ASTM D570
Equilibrium, 23°C, 50% RH	1.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	22500	13400	MPa	ISO 527-2
Tensile Stress (Break)	250	157	MPa	ISO 527-2
Tensile Strain (Break)	2.0	4.0	%	ISO 527-2
Flexural Modulus	17800	--	MPa	ISO 178
Flexural Stress	355	--	MPa	ISO 178
Poisson's Ratio	0.38	--		ASTM E132
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength	220	230	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	218	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220 to 230	--	°C	ISO 3146
Flammability	Dry	Conditioned		Test Method
Flame Rating	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	90.0		°C	
Drying Time	2.0		hr	
Suggested Max Moisture	0.20		%	
Processing (Melt) Temp	220 to 240		°C	
Mold Temperature	60.0 to 80.0		°C	

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