

Nypol® PA B3 HS PRTA010 NT388

Polyamide 6

Petropol Industry and Trade of Polymers LTDA

Message:

Nylon 6 color black, thermic stabilization, good set of mechanical properties, good resistance to traction and elongation, good set of thermal properties. Ideal for injection molding.

General Information				
Additive	Heat Stabilizer			
Features	Heat Stabilized			
Appearance	Black			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	>PA 6<			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13 to 1.40	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow (3.00 mm)	1.0	--	%	ISO 294-4
Water Absorption				ISO 62
Saturation, 23°C	9.0	--	%	
Equilibrium, 23°C, 50% RH	3.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1500	MPa	ISO 527-2
Tensile Strength				
Yield	79.0	40.0	MPa	ASTM D638
Yield	80.0	50.0	MPa	ISO 527-2
--	80.0	60.0	MPa	ASTM D638
Tensile Elongation				
Yield	4.9	23	%	ASTM D638
Break	60	240	%	ASTM D638
Break	50	100	%	ISO 527-2
Flexural Modulus	2790	690	MPa	ASTM D790
Flexural Strength (5.0% Strain)	110	27.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C)	5.5 kJ/m ²	No Break		ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				

0.45 MPa, Unannealed	158	--	°C	ASTM D648
0.45 MPa, Unannealed	160	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	55.0	--	°C	ASTM D648, ISO 75-2/A
Melting Temperature	218	--	°C	ISO 11357-3
Flammability	Dry	Conditioned		Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	90.0		°C	
Drying Time	3.0		hr	
Suggested Max Moisture	0.20		%	
Processing (Melt) Temp	230 to 260		°C	
Mold Temperature	80.0 to 100		°C	

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