

Nypol® PA A3 ST HS PRTA011 NR365 MSP

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Lubricated polyamide 6.6 in black color, thermo stabilized, high impact strength (ST), excellent mechanical properties, high tenacity and elongation, good set of thermal properties. Ideal for injection molding.

General Information				
Additive		Heat Stabilizer Lubricant		
Features		Heat Stabilized High Elongation High Impact Resistance Lubricated		
Appearance		Black		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		>PA 6.6<		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.09	--	g/cm ³	ASTM D792
Molding Shrinkage				ASTM D955
Flow : 3.20 mm	1.4	--	%	
Across Flow : 3.20 mm	1.2	--	%	
Water Absorption (Equilibrium)	1.2	--	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	105	70		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ASTM D638
-40°C	2120	2630	MPa	
23°C	1900	1100	MPa	
Tensile Strength				ASTM D638
Yield, -40°C	75.0	78.0	MPa	
Yield, 23°C	50.0	40.0	MPa	
--	50.0	38.0	MPa	
Tensile Elongation				ASTM D638
Yield, -40°C	10	14	%	
Yield, 23°C	5.0	40	%	
Break, -40°C	20	31	%	

Break, 23°C	32	> 50	%	
Flexural Modulus				ASTM D790
-40°C	2150	2850	MPa	
23°C	1900	830	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (Area)				ASTM D256
-40°C	18.0	--	kJ/m ²	
23°C	71.5	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	230	--	°C	
1.8 MPa, Unannealed	61.0	--	°C	
Melting Temperature	250 to 265	--	°C	ASTM D2117
Flammability	Dry	Conditioned		Test Method
Flame Rating	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time				
--	5.0		hr	
Desiccant Dryer	2.0 to 4.0		hr	
Suggested Max Moisture	0.020		%	
Processing (Melt) Temp	270 to 285		°C	
Mold Temperature	60.0 to 80.0		°C	

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