

# Nypol® PA A3 M3 NTLA014 NR411 MSP

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 natural reinforced with 3% of MoS2, high resistance to coat, good set of mechanical properties, high tenacity and elongation, good set of thermal properties. Ideal for injection molding.

General Information				
Additive	Molybdenum Disulfide Lubricant (3%)			
Features	High Elongation			
	Lubricated			
Appearance	Natural Color			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	>PA 6.6<			
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.40	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	1.5 to 1.7	--	%	ASTM D955
Water Absorption (Equilibrium)	1.3	--	%	ASTM D570
Ash Content	2.0 to 3.0	--	%	ASTM D2584
Relative Viscosity	45.0 to 55.0	--		
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	104		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength	85.0	70.0	MPa	ASTM D638
Tensile Elongation (Break)	57	> 57	%	ASTM D638
Flexural Modulus	2950	1250	MPa	ASTM D790
Flexural Strength	10.0	65.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	50	60	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	65.0	--	°C	ASTM D648
Melting Temperature	250 to 265	--	°C	ASTM D2117
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+14	1.0E+13	ohms · cm	ASTM D257
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.700 mm)	V-2	--		UL 94

Glow Wire Flammability Index	850	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0 to 6.0		hr	
Suggested Max Moisture	0.20		%	
Processing (Melt) Temp	260 to 280		°C	
Mold Temperature	80.0		°C	

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#### Recommended distributors for this material

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