

Nypol® PA A3 M3 PRTA011 NR432 MSP

Polyamide 66

Petropol Industry and Trade of Polymers LTDA

Message:

Polyamide 6.6 in color black 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		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		>PA 6.6<		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.40	--	g/cm ³	ASTM D792
Molding Shrinkage - Flow	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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