

Next Nylon 6 Prime Series NMS1-01 S.GY.

Polyamide 6

Next Polymers Ltd.

Message:

Description
PA6 MOS2 Filled Steel Grey compound
Product Applications
It is the ideal for dynamic bearing application, event at elevated temperature ex. gears, sheaves, sprockets, custom parts etc
Benefits
Excellent wear resistance, Self lubricated and Low friction characteristics.

General Information				
Additive		Molybdenum Disulfide Lubricant		
Features		Good Wear Resistance		
		Low Friction		
		Self Lubricating		
Uses		Bearings		
		Gears		
		Machine/Mechanical Parts		
Agency Ratings		EC 1907/2006 (REACH)		
RoHS Compliance		RoHS Compliant		
Appearance		Grey		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.15	--	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.85	--	%	
Across Flow	0.85	--	%	
Water Absorption				ASTM D570
23°C, 24 hr	0.60	--	%	
Saturation ¹	7.0	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	110	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2700	1900	MPa	ASTM D638
Tensile Strength	75.0	55.0	MPa	ASTM D638
Tensile Elongation (Break)	25	> 40	%	ASTM D638
Flexural Modulus	3400	2700	MPa	ASTM D790
Flexural Strength	110	85.0	MPa	ASTM D790

Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	49	69	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	180	--	°C	
1.8 MPa, Unannealed	95.0	--	°C	
Melting Temperature	220	--	°C	ASTM D2117
CLTE - Flow	9.0E-5	--	cm/cm/°C	ASTM E831
Thermal Conductivity	0.30	--	W/m/K	ASTM D5930
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	--	ohms	IEC 60093
Volume Resistivity	> 1.0E+16	--	ohms·cm	IEC 60093
Electric Strength	24	--	kV/mm	IEC 60243-1
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm)	HB	--		UL 94
Injection	Dry	Unit		
Drying Temperature - Hot Air Dryer	80.0		°C	
Drying Time	4.0 to 6.0		hr	
Suggested Max Moisture	0.20		%	
Rear Temperature	260 to 270		°C	
Middle Temperature	270 to 280		°C	
Front Temperature	270 to 280		°C	
Mold Temperature	65.0 to 85.0		°C	
NOTE				
1.	Immersed			

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