

Nycast 6PA-MoS2

Polyamide 6
Cast Nylons Ltd.

Message:

NYCAST 6PA-MoS2 is a popular choice as a dry lubricant-filled bearing material. Manufactured to be a more crystalline product with improved wear resistance, NYCAST 6PA-MoS2 also offers improved compressive strength.

General Information			
Additive	Molybdenum Disulfide Lubricant		
Features	Crystalline		
	Good Wear Resistance		
	Lubricated		
Uses	Automotive Applications		
	Bearings		
	Bushings		
	Construction Applications		
	Marine Applications		
	Mining Applications		
	Seals		
	Textile Applications		
	Wear Strip		
Forms	Preformed Parts		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15 to 1.17	g/cm ³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.50 to 0.60	%	
Saturation	5.0 to 6.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115 to 125		ASTM D785
Durometer Hardness (Shore D)	78 to 83		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760 to 3790	MPa	ASTM D638
Tensile Strength	68.9 to 93.1	MPa	ASTM D638
Tensile Elongation (Break)	20 to 55	%	ASTM D638
Flexural Modulus	2900 to 3450	MPa	ASTM D790
Flexural Strength	107 to 121	MPa	ASTM D790
Compressive Modulus	2240 to 2760	MPa	ASTM D695

Compressive Strength	93.1 to 110	MPa	ASTM D695
Shear Strength	68.9 to 75.8	MPa	ASTM D732
Coefficient of Friction (vs. Itself - Dynamic)	0.22		ASTM D1894
Deformation Under Load	0.500 to 2.50	%	ASTM D621
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37 to 48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	204 to 221	°C	
1.8 MPa, Unannealed	93.3 to 204	°C	
Continuous Use Temperature	110	°C	ASTM D794
Melting Temperature	227 to 238	°C	
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Service Temperature - Intermittent	166	°C	
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	20 to 24	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.70		
1 kHz	3.70		
100 kHz	3.70		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

