Quadrant EPP Nylatron® NSM

Polyamide 6

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Nylatron® NSM is a Polyamide 6 (Nylon 6) product. It is available in Europe. Applications of Quadrant EPP Nylatron® NSM include engineering/industrial parts and sealing applications.
Characteristics include:
Flame Rated
Corrosion Resistant
Lubricated
Wear Resistant

General Information	
Additive	Lubricant
Features	Good Corrosion Resistance Good Wear Resistance Low Friction Lubricated Non-Abrasive
Uses	Bearings Bushings Cams Seals Valves/Valve Parts Wear Strip
Appearance	Grey
Forms	Rod Sheet Tubing

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr, 3.00 mm	0.59	--	%	
Saturation, 23°C	6.3	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Water Absorption				ISO 62
23°C, 3.00 mm [1]	76.0	--	mg	
23°C, 3.00 mm [2]	40.0	--	mg	

23°C, 3.00 mm [3]	1.1	--	%	
Service Temperature - Minimum	-30	--	°C	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale, 10.0 mm)	81	--		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	150	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	3100	1500	MPa	ISO 527-2/1B/1
Tensile Stress (Yield)	76.0	50.0	MPa	ISO 527-2/1B/20
Tensile Strain (Break)	25	> 50	%	ISO 527-2/1B/20
Tensile Creep Modulus (1000 hr)	18.0	8.00	MPa	ISO 899-1
Compressive Stress				ISO 604/1
5% Strain	81.0	--	MPa	
2% Strain	44.0	--	MPa	
1% Strain	23.0	--	MPa	
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	4.0	--	kJ/m^2	ISO 179/1eA
Charpy Unnotched Impact Strength	> 100	--	kJ/m^2	ISO 179/1eU
Notched Izod Impact Strength	4.0	7.0	kJ/m^2	ISO 180/2A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	--	°C	ISO 75-2/A
Continuous Use Temperature				
-- [4]	90.0	--	°C	
-- [5]	105	--	°C	
-- [6]	165	--	°C	
Melting Temperature (DSC)	220	--	°C	
CLTE - Flow				
23 to 60°C	8.0E-5	--	cm/cm/°C	
23 to 100°C	9.5E-5	--	cm/cm/°C	
Thermal Conductivity (23°C)	0.29	--	W/m/K	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+13	> 1.0E+12	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	> 1.0E+12	ohms·cm	IEC 60093
Electric Strength (1.00 mm, in Oil)	25	17	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250

100 Hz	3.60	6.60		
1 MHz	3.20	3.70		
Dissipation Factor				IEC 60250
100 Hz	0.012	0.14		
1 MHz	0.016	0.050		
Comparative Tracking Index	600	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
3.00 mm	HB	--		
6.00 mm	HB	--		

NOTE	
1.	Weight, 96 hrs
2.	Weight, 24 hrs
3.	96 hrs
4.	20000 hrs
5.	5000 hrs
6.	Short periods

Recommended distributors for this material

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