

Quadrant EPP Nylatron® GSM

Polyamide 6

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Nylatron® GSM is a Polyamide 6 (Nylon 6) product. It is available in Europe. Applications of Quadrant EPP Nylatron® GSM include engineering/industrial parts, bags/liners, sealing applications and wire & cable.

Characteristics include:

- Flame Rated
- Corrosion Resistant
- Fatigue Resistant
- Heat Resistant
- High Strength

General Information	
Additive	Molybdenum Disulfide Lubricant
Features	Fatigue Resistant
	Good Corrosion Resistance
	Good Impact Resistance
	Good Wear Resistance
	High Heat Resistance
	High Strength
	Low Friction
	Lubricated
	Machinable
	Self Lubricating
Uses	Vibration Damping
	Bearings
	Bushings
	Cams
	Gears
	Liners
	Seals
	Standoff Insulators
	Thrust Washer
	Valves/Valve Parts
Appearance	Washer
	Wear Strip
	Black
	Grey

Forms		Rod		
		Sheet		
		Tubing		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr, 3.00 mm	0.76	--	%	
Saturation, 23°C	6.7	--	%	
Equilibrium, 23°C, 50% RH	2.4	--	%	
Water Absorption				ISO 62
23°C, 3.00 mm ¹	52.0	--	mg	
23°C, 3.00 mm ²	1.4	--	%	
23°C, 3.00 mm ³	98.0	--	mg	
Service Temperature - Minimum	-30	--	°C	

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale, 10.0 mm)	84	--		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	160	--	MPa	ISO 2039-1

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3300	1600	MPa	ISO 527-2/1B/1
Tensile Stress (Yield)	78.0	50.0	MPa	ISO 527-2/1B/20
Tensile Strain (Break)	25	> 50	%	ISO 527-2/1B/20
Tensile Creep Modulus (1000 hr)	21.0	9.00	MPa	ISO 899-1
Compressive Stress				ISO 604/1
5% Strain	88.0	--	MPa	
2% Strain	49.0	--	MPa	
1% Strain	25.0	--	MPa	

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.5	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	--		ISO 179/1eU
Notched Izod Impact Strength	3.5	7.0	kJ/m ²	ISO 180/2A

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	80.0	--	°C	ISO 75-2/A
Continuous Use Temperature				
-- ⁴	90.0	--	°C	

-- 5	105	--	°C	
-- 6	170	--	°C	
Melting Temperature (DSC)	220	--	°C	
CLTE - Flow				
23 to 60°C	8.0E-5	--	cm/cm/°C	
23 to 100°C	9.0E-5	--	cm/cm/°C	
Thermal Conductivity (23°C)	0.30	--	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)	24	16	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	--		
Oxygen Index	25	--	%	ISO 4589-2
NOTE				
1.	Weight, 24 hrs			
2.	96 hrs			
3.	Weight, 96 hrs			
4.	20000 hrs			
5.	5000 hrs			
6.	Short periods			

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