

# Quadrant EPP Nylatron® GSM Blue

Polyamide 6

Quadrant Engineering Plastic Products

## Message:

Nylatron GSM Blue nylon is the first cast nylon to combine both molybdenum disulfide and oil for the load capability of Nylatron GSM nylon, plus improved frictional characteristics. It excels in higher pressures, and at low speeds- up to 40 fpm. It offer 20% lower coefficient of friction, 50% greater limiting PV, and a lower "k" factor than Nylatron GSM, and the lowest "slip-stick" of any nylon product. It is ideal for slide pads, thrust washers and trunion bearings. Nylatron GSM blue should be considered for any oil-filled nylon application. It is dark blue in color.

General Information			
Additive	Molybdenum Disulfide Lubricant		
	Perfluoropolyether Oil Lubricant		
Features	Hydrocarbon Resistant		
	Low Friction		
	Machinable		
Uses	Bearings		
	Thrust Washer		
Appearance	Blue		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm <sup>3</sup>	ASTM D792
Water Absorption			ASTM D570
24 hr	0.30	%	
Saturation	6.0	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	80		
R-Scale	117		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength (Ultimate)	68.9	MPa	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength (Yield)	103	MPa	ASTM D790
Compressive Modulus	2930	MPa	ASTM D695
Compressive Strength (10% Strain)	89.6	MPa	ASTM D695
Coefficient of Friction (vs. Steel - Static)	0.18		Internal Method
Wear Factor	130	10 <sup>-8</sup> mm <sup>3</sup> /N·m	ASTM D3702

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	48	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	93.3	°C	ASTM D648
Maximum Use Temperature - Long Term, Air	93	°C	
Limiting Pressure Velocity <sup>1</sup>	0.193	MPa·m/s	Internal Method
Peak Crystallization Temperature (DSC)	216	°C	ASTM D3418
CLTE - Flow <sup>2</sup> (-40 to 149°C)	9.9E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity <sup>3</sup>	> 1.0E+13	ohms	Internal Method
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.18 mm, Estimated Rating)	HB		UL 94
NOTE			
1.	4:1 safety factor		
2.	68°F		
3.	EOS/ESD S11.11		

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