Quadrant EPP Nylatron® GS

Polyamide 66

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Nylatron® GS is a Polyamide 66 (Nylon 66) product. It is available in Europe. Typical application: Engineering/Industrial Parts.
Characteristics include:
Flame Rated
Chemical Resistant
Good Dimensional Stability
Heat Resistant
High Strength

General Information	
Additive	Molybdenum Disulfide Lubricant
Features	Good Dimensional Stability
	Good Wear Resistance
	Grease Resistant
	High Heat Resistance
	High Rigidity
	High Strength
	Low Friction
	Lubricated
	Oil Resistant
	Scratch Resistant
	Self Lubricating
	Solvent Resistant
	Sound Damping
Uses	Bearings
	Bushings
	Gears
	Thrust Washer
	Valves/Valve Parts
	Wear Strip
Appearance	Black
	Grey
Forms	Rod
	Sheet
	Tubing

Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr, 3.00 mm	0.68	--	%	
Saturation, 23°C	7.8	--	%	
Equilibrium, 23°C, 50% RH	2.3	--	%	
Water Absorption				ISO 62
23°C, 3.00 mm [1]	1.3	--	%	
23°C, 3.00 mm [2]	85.0	--	mg	
23°C, 3.00 mm [3]	46.0	--	mg	
Service Temperature - Minimum	-20	--	°C	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale, 10.0 mm)	88	--		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	165	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	3500	1680	MPa	ISO 527-2/1B/1
Tensile Stress (Yield)	92.0	55.0	MPa	ISO 527-2/1B/20
Tensile Strain (Break)	20	> 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	92.0	--	MPa	
2% Strain	49.0	--	MPa	
1% Strain	25.0	--	MPa	
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	4.0	--	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	--		ISO 179/1eU
Notched Izod Impact Strength	4.0	9.0	kJ/m²	ISO 180/2A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature (1.8 MPa, Unannealed)	85.0	--	°C	ISO 75-2/A
Continuous Use Temperature				
-- [4]	80.0	--	°C	
-- [5]	95.0	--	°C	
-- [6]	180	--	°C	
Melting Temperature (DSC)	255	--	°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)	0.29	--	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)	26	17	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.80	7.40		
1 MHz	3.30	3.80		
Dissipation Factor				IEC 60250
100 Hz	0.013	0.13		
1 MHz	0.020	0.060		
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	26	--	%	ISO 4589-2
NOTE				
1.	96 hrs			
2.	Weight, 96 hrs			
3.	Weight, 24 hrs			
4.	20000 hrs			
5.	5000 hrs			
6.	Short periods			

Recommended distributors for this material

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