Quadrant EPP Nylatron® GS

Polyamide 66

Quadrant Engineering Plastic Products



Technical Data

Product Description

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

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General						
Material Status	Commercial: Active					
Literature ¹	 Technical Datasheet (English)				
Search for UL Yellow Card	Quadrant Engineering Plastic Products					
Availability	Europe					
Additive	Molybdenum Disulfide Lubric	ant				
Features	Good Dimensional StabilityGood Wear ResistanceGrease ResistantHigh Heat ResistanceHigh Rigidity	ear Resistance				
Uses	BearingsBushings	GearsThrust Washer	Valves/Valve PartsWear 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 ³	1.3		%			
23°C, 3.00 mm ⁴	85.0		mg			
23°C, 3.00 mm ⁵	46.0		mg			
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 ^{6, 7} (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			
npact	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		
lardness	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		
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Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				ISO 75-2/A
1.8 MPa, Unannealed	85.0		°C	
Continuous Use Temperature				
8	80.0		°C	
9	95.0		°C	
10	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	
Service Temperature - Minimum	-20		°C	
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
-lammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
3.00 mm	НВ			
6.00 mm	НВ			
Oxygen Index	26		%	ISO 4589-2

Notes

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¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 96 hrs

⁴ Weight, 96 hrs

⁵ Weight, 24 hrs

⁶ Type 1B

⁷ 1% Strain

⁸ 20000 hrs ⁹ 5000 hrs

¹⁰ Short periods

Quadrant EPP Nylatron® GS

Polyamide 66

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Where to Buy

Supplier

Quadrant Engineering Plastic Products

Reading, PA USA Telephone: 800-366-0300

Web: http://www.quadrantepp.com/

Distributor

Please contact the supplier to find a distributor for Quadrant EPP Nylatron® GS



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