

# Quadrant EPP Nylatron® LFG Nylon

Polyamide 6

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Nylatron® LFG Nylon is a Polyamide 6 (Nylon 6) product. It can be processed by casting and is available in North America. Typical application: Food Contact Applications.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Lubricated

General Information			
Additive	Perfluoropolyether Oil Lubricant		
Features	Hydrocarbon Resistant		
	Machinable		
Agency Ratings	FDA Unspecified Rating		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	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	85		
R-Scale	120		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3210	MPa	ASTM D638
Tensile Strength (Ultimate)	68.3	MPa	ASTM D638
Tensile Elongation (Break)	50	%	ASTM D638
Flexural Modulus	3620	MPa	ASTM D790
Flexural Strength (Yield)	103	MPa	ASTM D790
Compressive Modulus	2280	MPa	ASTM D695
Compressive Strength (10% Strain)	93.1	MPa	ASTM D695
Shear Strength	64.1	MPa	ASTM D732
Coefficient of Friction (vs. Steel - Static)	0.14		Internal Method
Wear Factor	180	10^-8 mm³/N·m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	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	104	°C	
Limiting Pressure Velocity <sup>1</sup>	0.210	MPa·m/s	Internal Method
Peak Crystallization Temperature (DSC)	216	°C	ASTM D3418
CLTE - Flow <sup>2</sup> (-40 to 149°C)	1.0E-4	cm/cm/°C	ASTM E831
Flammability	Nominal Value		Test Method
Flame Rating (3.18 mm, Estimated Rating)	HB		UL 94
NOTE			
1.	4:1 safety factor		
2.	68°F		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

