

Quadrant EPP Nylatron® LIG Nylon

Polyamide 6

Quadrant Engineering Plastic Products

Message:

Quadrant EPP Nylatron® LIG Nylon is a Polyamide 6 (Nylon 6) product. It can be processed by casting and is available in North America.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Lubricated

General Information			
Additive	Perfluoropolyether Oil Lubricant		
Features	Hydrocarbon Resistant		
	Machinable		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	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
Coefficient of Friction (vs. Steel - Static)	0.14		Internal Method
Wear Factor	180	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	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 ¹	0.210	MPa · m/s	Internal Method
Peak Crystallization Temperature (DSC)	216	°C	ASTM D3418
CLTE - Flow ² (-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		

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