

Quadrant EPP ERTALON® LFX

Polyamide 6

Quadrant Engineering Plastic Products

Message:

Quadrant EPP ERTALON® LFX is a Polyamide 6 (Nylon 6) product. It is available in Europe.

Characteristics include:

- Flame Rated
- Wear Resistant

General Information	
Features	Good Wear Resistance Low Friction Self Lubricating
Appearance	Green
Forms	Customizable Forms Disc Preformed Parts Rod Sheet Tubing

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr, 3.00 mm	0.66	--	%	
Saturation, 23°C	6.3	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Water Absorption				ISO 62
23°C, 3.00 mm ¹	1.2	--	%	
23°C, 3.00 mm ²	83.0	--	mg	
23°C, 3.00 mm ³	44.0	--	mg	
Service Temperature - Minimum	-20	--	°C	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale, 10.0 mm)	82	--		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	145	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1450	MPa	ISO 527-2/1B/1

Tensile Stress (Yield)	70.0	45.0	MPa	ISO 527-2/1B/20
Tensile Strain (Break)	25	> 50	%	ISO 527-2/1B/20
Tensile Creep Modulus (1000 hr)	18.0	8.00	MPa	ISO 899-1
Compressive Stress				ISO 604/1
5% Strain	79.0	--	MPa	
2% Strain	43.0	--	MPa	
1% Strain	22.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	> 50	--	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength	4.0	7.0	kJ/m ²	ISO 180/2A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	75.0	--	°C	ISO 75-2/A
Continuous Use Temperature				
-- ⁴	90.0	--	°C	
-- ⁵	105	--	°C	
-- ⁶	165	--	°C	
Melting Temperature (DSC)	220	--	°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)	0.28	--	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)	22	14	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.50	6.50		
1 MHz	3.10	3.60		
Dissipation Factor				IEC 60250
100 Hz	0.015	0.15		
1 MHz	0.016	0.050		
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	--

NOTE

1.	96 hrs
2.	Weight, 96 hrs
3.	Weight, 24 hrs
4.	20000 hrs
5.	5000 hrs
6.	Short periods

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