

Quadrant EPP ERTALON® 4.6

Polyamide 46

Quadrant Engineering Plastic Products

Message:

Quadrant EPP ERTALON® 4.6 is a Polyamide 46 (Nylon 46) product. It is available in Europe.

Characteristics include:

- Flame Rated
- Creep Resistant
- Fatigue Resistant
- Good Stiffness
- Heat Resistant

General Information				
Features	Fatigue Resistant			
	Good Creep Resistance			
	Good Heat Aging Resistance			
	Good Stiffness			
	Good Wear Resistance			
Appearance	Brown			
	Grey			
Forms	Disc			
	Preformed Parts			
	Rod			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr, 3.00 mm	1.3	--	%	
Saturation, 23°C	9.5	--	%	
Equilibrium, 23°C, 50% RH	2.8	--	%	
Water Absorption				ISO 62
23°C, 3.00 mm ¹	2.6	--	%	
23°C, 3.00 mm ²	180.0	--	mg	
23°C, 3.00 mm ³	90.0	--	mg	
Service Temperature - Minimum	-40	--	°C	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale, 10.0 mm)	92	--		ISO 2039-2

Ball Indentation Hardness (10.0 mm)	165	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3300	1300	MPa	ISO 527-2/1B/1
Tensile Stress (Yield)	100	55.0	MPa	ISO 527-2/1B/20
Tensile Strain (Break)	25	> 100	%	ISO 527-2/1B/20
Tensile Creep Modulus (1000 hr)	22.0	7.50	MPa	ISO 899-1
Compressive Stress				ISO 604/1
5% Strain	94.0	--	MPa	
2% Strain	45.0	--	MPa	
1% Strain	23.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	8.0	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	--		ISO 179/1eU
Notched Izod Impact Strength	8.0	25	kJ/m ²	ISO 180/2A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	160	--	°C	ISO 75-2/A
Continuous Use Temperature				
-- ⁴	135	--	°C	
-- ⁵	155	--	°C	
-- ⁶	200	--	°C	
Melting Temperature (DSC)	295	--	°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)	0.30	--	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)	25	15	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.80	7.40		
1 MHz	3.40	3.80		
Dissipation Factor				IEC 60250
100 Hz	9.0E-3	0.13		
1 MHz	0.019	0.060		

Comparative Tracking Index	400	400	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
3.00 mm	HB	--		
6.00 mm	HB	--		
Oxygen Index	24	--	%	ISO 4589-2
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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