

Quadrant EPP ERTALON® 6 SA

Polyamide 66

Quadrant Engineering Plastic Products

Message:

Quadrant EPP ERTALON® 6 SA is a Polyamide 66 (Nylon 66) product. It is available in Europe.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Good Stiffness
- Good Toughness
- High Strength

General Information				
Features	Electrically Insulating			
	Good Chemical Resistance			
	Good Stiffness			
	Good Toughness			
	Good Wear Resistance			
	High Strength			
	Sound Damping			
Uses	General Purpose			
Appearance	Black			
	Natural Color			
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	1.3	--	%	
Saturation, 23°C	9.0	--	%	
Equilibrium, 23°C, 50% RH	2.6	--	%	
Water Absorption				ISO 62
23°C, 3.00 mm ¹	2.5	--	%	
23°C, 3.00 mm ²	168.0	--	mg	
23°C, 3.00 mm ³	86.0	--	mg	

Service Temperature - Minimum	-40	--	°C	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale, 10.0 mm)	85	--		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	150	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3250	1400	MPa	ISO 527-2/1B/1
Tensile Stress (Yield)	76.0	45.0	MPa	ISO 527-2/1B/20
Tensile Strain (Break)	> 50	> 100	%	ISO 527-2/1B/20
Tensile Creep Modulus (1000 hr)	18.0	7.00	MPa	ISO 899-1
Compressive Stress				ISO 604/1
5% Strain	80.0	--	MPa	
2% Strain	46.0	--	MPa	
1% Strain	24.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.5	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	--		ISO 179/1eU
Notched Izod Impact Strength	5.5	15	kJ/m ²	ISO 180/2A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	70.0	--	°C	ISO 75-2/A
Continuous Use Temperature				
-- ⁴	70.0	--	°C	
-- ⁵	85.0	--	°C	
-- ⁶	160	--	°C	
Melting Temperature (DSC)	220	--	°C	
CLTE - Flow				
23 to 60°C	9.0E-5	--	cm/cm/°C	
23 to 100°C	1.1E-4	--	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)	25	16	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.90	7.40		

1 MHz	3.30	3.80		
Dissipation Factor				IEC 60250
100 Hz	0.019	0.13		
1 MHz	0.021	0.060		
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	--		
Oxygen Index	25	--	%	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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