

Quadrant EPP ERTALON® 66 SA

Polyamide 66

Quadrant Engineering Plastic Products

Message:

Quadrant EPP ERTALON® 66 SA is a Polyamide 66 (Nylon 66) product. It is available in Europe. Typical application: Engineering/Industrial Parts.

Characteristics include:

- Flame Rated
- Creep Resistant
- Good Stiffness
- Heat Resistant
- High Strength

General Information				
Features	Good Creep Resistance			
	Good Stiffness			
	Good Wear Resistance			
	High Heat Resistance			
	High Strength			
Uses	Machine/Mechanical Parts			
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	0.60	--	%	
Saturation, 23°C	8.0	--	%	
Equilibrium, 23°C, 50% RH	2.4	--	%	
Water Absorption				ISO 62
23°C, 3.00 mm ¹	1.1	--	%	
23°C, 3.00 mm ²	76.0	--	mg	
23°C, 3.00 mm ³	40.0	--	mg	
Service Temperature - Minimum	-30	--	°C	
Hardness	Dry	Conditioned	Unit	Test Method

Rockwell Hardness (M-Scale, 10.0 mm)	88	--		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	160	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3450	1650	MPa	ISO 527-2/1B/1
Tensile Stress (Yield)	90.0	55.0	MPa	ISO 527-2/1B/20
Tensile Strain (Break)	> 40	> 100	%	ISO 527-2/1B/20
Tensile Creep Modulus (1000 hr)	20.0	8.00	MPa	ISO 899-1
Compressive Stress				ISO 604/1
5% Strain	92.0	--	MPa	
2% Strain	49.0	--	MPa	
1% Strain	25.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.5	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	No Break	--		ISO 179/1eU
Notched Izod Impact Strength	4.5	11	kJ/m ²	ISO 180/2A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	85.0	--	°C	ISO 75-2/A
Continuous Use Temperature				
-- ⁴	80.0	--	°C	
-- ⁵	95.0	--	°C	
-- ⁶	180	--	°C	
Melting Temperature (DSC)	255	--	°C	
CLTE - Flow				
23 to 60°C	8.0E-5	--	cm/cm/°C	
23 to 100°C	9.5E-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)	27	18	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.80	7.40		
1 MHz	3.30	3.80		
Dissipation Factor				IEC 60250
100 Hz	0.013	0.13		

1 MHz	0.020	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	V-2	--		
Oxygen Index	26	--	%	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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