

Quadrant EPP ERTACETAL® C Colors

Acetal (POM) Copolymer

Quadrant Engineering Plastic Products

Message:

Quadrant EPP ERTACETAL® C Colors is an Acetal (POM) Copolymer product. It is available in Europe. Typical application: Food Contact Applications.
Characteristics include:
Flame Rated
Copolymer
Heat Resistant

General Information			
Features	Alkali Resistant		
	Copolymer		
	Good Thermal Stability		
	Hydrolysis Resistant		
	Oxidation Resistant		
Agency Ratings	FDA Unspecified Rating		
Appearance	Black		
	Blue		
	Brown		
	Green		
	Grey		
	Orange		
	Red		
	Yellow		
Forms	Disc		
	Preformed Parts		
	Rod		
	Sheet		
	Tubing		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr, 3.00 mm	0.24	%	
Saturation, 23°C	0.85	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Water Absorption			ISO 62
23°C, 3.00 mm ¹	20.0	mg	

23°C, 3.00 mm ²	0.45	%	
23°C, 3.00 mm ³	37.0	mg	
Service Temperature - Minimum	-50	°C	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 10.0 mm)	84		ISO 2039-2
Ball Indentation Hardness (10.0 mm)	140	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ⁴	3100	MPa	ISO 527-2/1B/1
Tensile Stress ⁵ (Yield)	68.0	MPa	ISO 527-2/1B/20
Tensile Strain ⁶ (Break)	35	%	ISO 527-2/1B/20
Tensile Creep Modulus (1000 hr)	13.0	MPa	ISO 899-1
Compressive Stress			ISO 604/1
5% Strain	67.0	MPa	
2% Strain	35.0	MPa	
1% Strain	19.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	> 150	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength ⁷	7.0	kJ/m ²	ISO 180/2A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	105	°C	ISO 75-2/A
Continuous Use Temperature			
-- ⁸	100	°C	
-- ⁹	115	°C	
-- ¹⁰	140	°C	
Melting Temperature (DSC)	165	°C	
CLTE - Flow			
23 to 60°C	1.1E-4	cm/cm/°C	
23 to 100°C	1.3E-4	cm/cm/°C	
Thermal Conductivity (23°C)	0.31	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹¹	> 1.0E+13	ohms	IEC 60093
Volume Resistivity ¹²	> 1.0E+14	ohms · cm	IEC 60093
Electric Strength ¹³ (1.00 mm, in Oil)	20	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz ¹⁴	3.80		
1 MHz ¹⁵	3.80		
Dissipation Factor			IEC 60250
100 Hz ¹⁶	3.0E-3		
1 MHz ¹⁷	8.0E-3		
Comparative Tracking Index ¹⁸	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
3.00 mm	HB		
6.00 mm	HB		
Oxygen Index	15	%	ISO 4589-2
NOTE			
1.	Weight, 24 hrs		
2.	96 hrs		
3.	Weight, 96 hrs		
4.	Conditioned		
5.	Conditioned		
6.	Conditioned		
7.	Conditioned		
8.	20000 hrs		
9.	5000 hrs		
10.	Short periods		
11.	Conditioned		
12.	Conditioned		
13.	Conditioned		
14.	Conditioned		
15.	Dry		
16.	Dry		
17.	Conditioned		
18.	Conditioned		

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