

Quadrant EPP ERTACETAL® C/3WF

Acetal (POM) Copolymer

Quadrant Engineering Plastic Products

Message:

Quadrant EPP ERTACETAL® C/3WF 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
Uses	Non-specific Food Applications
Appearance	White
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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