

Quadrant EPP ERTACETAL® H

Acetal (POM) Homopolymer
Quadrant Engineering Plastic Products

Message:

Quadrant EPP ERTACETAL® H is an Acetal (POM) Homopolymer product. It is available in Europe.
Characteristics include:
Flame Rated
Creep Resistant
High Hardness
High Stiffness
High Strength

General Information			
Features	Good Creep Resistance		
	Good Wear Resistance		
	High Hardness		
	High Stiffness		
	High Strength		
	Homopolymer		
Appearance	Black		
	Natural Color		
	White		
Forms	Disc		
	Preformed Parts		
	Rod		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Water Absorption			ISO 62
23°C, 24 hr, 3.00 mm	0.21	%	
Saturation, 23°C	0.85	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Water Absorption			ISO 62
23°C, 3.00 mm ¹	18.0	mg	
23°C, 3.00 mm ²	0.43	%	
23°C, 3.00 mm ³	36.0	mg	
Service Temperature - Minimum	-50	°C	
Hardness	Nominal Value	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	Nominal Value	Unit	Test Method
Tensile Modulus ⁴	3600	MPa	ISO 527-2/1B/1
Tensile Stress ⁵ (Yield)	78.0	MPa	ISO 527-2/1B/20
Tensile Strain ⁶ (Break)	35	%	ISO 527-2/1B/20
Tensile Creep Modulus (1000 hr)	15.0	MPa	ISO 899-1
Compressive Stress			ISO 604/1
5% Strain	75.0	MPa	
2% Strain	40.0	MPa	
1% Strain	22.0	MPa	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	> 200	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength ⁷	10	kJ/m ²	ISO 180/2A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	115	°C	ISO 75-2/A
Continuous Use Temperature			
-- ⁸	90.0	°C	
-- ⁹	105	°C	
-- ¹⁰	150	°C	
Melting Temperature (DSC)	175	°C	
CLTE - Flow			
23 to 60°C	9.5E-5	cm/cm/°C	
23 to 150°C	1.1E-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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