

Technical Data Sheet

Acetal Copolymer

Advantages

- Impact resistance
- High rigidity
- Dimensional stability
- Very low moisture absorption
- Excellent machinability

vs Homopolymer

- Performs better in hot water 85-90°C
- More resistant to alkalis and UV

	Test Standard	Units	Guide Values
General			
Colour			White/Black/Blue
Density	ISO1183:1987	g/cm3	1.41
Moisture Absorption (Equilibrium)	ISO 62:1999	%	0.1
Water Absorption (24 Hours)	ISO 62:1999 (modified)	%	0.2
Water Absorption (Saturation)	ISO 62:1999	%	0.9
Mechanical Properties			
Tensile strength	ISO 527-1/2:1993	MPa	70
E-modulus	ISO 527-1/2:1993	MPa	3100
Elongation at break	ISO 527-1/2:1993	%	>15
Compressive Strength	ISO 604:2002	MPa	110
Compressive Modulus	ISO 604:2002	MPa	2600
Flexural Strength*	ISO 178:2001	MPa	80
Flexural Modulus	ISO 178:2001	MPa	2600
Izod Impact Strength	ISO 180:2000	KJ/m2	7.2
Charpy Impact Strength	ISO 179-2:1999	KJ/m2	-
Hardness (Shore D)	ISO 868:2003	-	83
Coefficient of Friction (Dynamic)		-	0.25
Limiting PV		MPa/m.min	6
Wear Rate		mg/km	-
K-Factor		mm3/Nm	-
Thermal Properties			
Melting Temperature	-	°C	170
Glass Transition Temperature (Tg)	ISO 11359-2:1999	°C	-60
Heat Deflection Temperature HDT/A	ISO 75	°C	110
Heat Deflection Temperature HDT/B	ISO 75	°C	160
Maximum Intermittent Service Temperature	-	°C	140
Maximum Continuous Service Temperature	-	°C	90
Minimum Intermittent Service Temperature	-	°C	-
Minimum Continuous Service Temperature	-	°C	-
Coefficient of Linear Thermal Expansion (TMA)	ISO 11359-2:1999	°C-1	9.2 x 10 ⁻⁵
Thermal Conductivity	ISO 8301:1991	W/m.°C	0.31
Flammability	IEC 60695-11-10:2003-08	-	HB
Electrical Properties			
Dielectric Constant	IEC 60250:1969-01	-	3.8
Dielectric Constant (Low Frequency)		-	-
Dissipation Factor	IEC 60250:1969-01	Hz	0.005
Dielectric Strength	IEC 60243-1:1998-01	kV/mm	16.5
Volume Resistivity	IEC 60093:1980-01	ohm.m	1 x 10 ¹³
Surface Resistivity ROA	IEC 60093:1980-01	ohm	1 x 10 ¹³
Comparative Tracking Index	IEC 60112:2003-01	CTI	600

All information contained in this literature corresponds with our current knowledge of the products. The Plastic People assume no liability whatsoever in respect of application, conversion or use made of the aforementioned information or products, or any consequence thereof. The buyer undertakes all liability in respect of the application, conversion or use of the aforementioned information or products. Existing intellectual property rights must be observed and The Plastic People reserve the right to make technical alterations.

The Plastic People is a division of Barkston Plastics Ltd, Unit 11 Riverside Place, Bridgewater Rd, Leeds, LS9 0RQ Telephone: 0113 399 3622
The Barkston Group: Barkston Ltd The Plastic People Copyright © 2013 The Plastic People www.theplasticpeople.co.uk