Acetal Homopolymer

Technical Properties

Physical	Unit	Test Method	Result
Specific gravity	g/cm³	ISO 1183-1	1.43
Water absorption till saturation 23°C	%		0.80
Maximum service temp. Upper temp limit - short term	°C		150
Maximum service temp. Upper temp limit - Long term	°C		105
Lower temp limit	°C		-50
Mechanical	**Unit**	**Test Method**	**Result**
Tensile strength	MPa	ISO 527-1/-2	78
Tensile strength at break	MPa	ISO 527-1/-2	78
Unnotched Impact strength	kJ/m²	ISO 179-1/1eU	no break
Notch impact strength	kJ/m²	ISO 179-1/1eA	10
Ball indentation / Rockwell hardness	MPa	ISO 2039-1/2039-2	160 / M88
Tensile modulus of elasticity	MPa	ISO 527-1/-2	3700
Thermal	**Unit**	**Test Method**	**Result**
Coefficient of linear thermal expansion 23°C - 100°C	m/(m.K)		110×10^{-6}
Thermal conductivity at 23°C	W/mK		0.31
Electrical	**Unit**	**Test Method**	**Result**
Volume resistivity	Ω x m	IEC 60093	$> 10^{14}$
Surface resistivity	Ω	IEC 60093	$> 10^{13}$
Dielectric constant at 1MHz		IEC 60250	3.80
Dielectric loss factor at 1 MHz		IEC 60250	0.008
Dielectric strength	kV/mm	IEC 60243-1	20
Comparative tracking index (CTI)		IEC 60112	600
Additional Data	**Unit**	**Test Method**	**Result**
Food compliance - FDA		FDA	no
Food compliance - EU		EU 10/2011	no
Flammability	**Unit**	**Test Method**	**Result**
Fire performance		UL 94	HB
Optical	**Unit**	**Test Method**	**Result**

All information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.