

DirectPlastics

Unit 7, Portland Business Park
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Technical Properties for Acetal

	Norm	Unit i.e.	Value
<u>Physical Properties</u>			
Specific Gravity	ISO 1183	g/cm ³	1.39
Water Absorption	DIN 53495	%	0.2
Chemical resistance	-	-	-
Maximum service temp	-	degrees C	110
Minimum service temp	-	degrees C	-50
<u>Mechanical Properties</u>			
Tensile strength at yeild	ISO 527	MPa	>65
Elongation at yeild	ISO 527	%	10
Tensile strength at break	ISO 527	MPa	>20
Elongation at break	ISO 527	%	31
Impact strength	ISO 179	kJ/m ²	0.B.
Notch impact strength	ISO 179	kJ/m ²	6
Ball indentation (Rockwell)	ISO 2039	MPa	135
Shore D	DIN 53505	-	85
Flexural strength	ISO 178	MPa	-
Modulus elasticity	ISO 527	MPa	2600
<u>Thermal Properties</u>			
Vicat softening temp	ISO 306	degrees C	150
Heat deflection Temp	ISO 75	degrees C	155
Coefficient of expansion	DIN 53752	K-1 x 10 ⁻⁴	1.1
Thermal conduct at 20	DIN 52612	W/(mxK)	0.31
<u>Electrical Properties</u>			
Volume resistivity	VDE 0303	x cm	>10 13
Surface resistivity	VDE 0303	-	>10 13
Dielectric constant @ 1MHz	DIN 53483	-	3.8
Diel. loss factor @ 1 MHz	DIN 53483	-	0.005
Dielectric strength	VDE 0303	kV/mm	40
Tracking resistance	DIN 53480	-	CTI 600

Better Plastics

Nylon – Acetal – Tufnol – PTFE – Perspex - Lexan
Polypropylene - PVC - HDPE - PEEK

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Additional Data

Bondability	-	-	0
Friction Coefficient	DIN 53375	-	0.35
Flamability	UL 94	-	HB

Chemical properties

Acid resistance			+
Hydroxid resistance (dilute)			+
Hydrocarbonat resistance			+
CKW resistance			0
Aromatic resistance			+
Ketone resistance			+
Resistance to hot water			+

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