

ROBALON-W

Without molybdenum disulphide alloy and without cross-linker | very good electrical insulation

	Test method	Unit	Value
General properties			
Color	-	-	white
Density	DIN EN ISO 1183	g/cm ³	0,93
Average molecular weight	-	g/mol	9,20 * 10 ⁶
Flammability	UL94	3/6mm	HB/HB
Water absorption	DIN EN ISO 62	%	<0,01
Mechanical properties			
Yield stress	DIN EN ISO 527-1	MPa	17
Elongation at break	DIN EN ISO 527-1	%	>300
Tensile modulus of elasticity	DIN EN ISO 527-1	MPa	470
Notched impact strength	ISO 179-1/1eA	kJ/m ²	101
Shore hardness	DIN EN ISO 868, 15s	scale D	63
Compression set	Stress 2N/mm ² , 1 Std.	-	Compression ~ 2 % 23°C
	Stress 10N/mm ² , 56 Std.	-	Compression ~ 20 % 80°C
Thermal properties			
Melting temperature	DIN EN ISO 3146	°C	135
Thermal conductivity	ISO 8302	W/(m K)	0,41
Thermal capacity	DIN 51005	kJ/(kg K)	1,84
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ K ⁻¹	200
Service temperature, long term	-	°C	-200 ... 80
Service temperature, short term (max.)	-	°C	110
Electrical properties			
Volume resistivity	DIN IEC 60093	Ω * cm	10 ¹²
Surface resistivity	DIN IEC 60093	Ω	10 ¹²
Comparative tracking index (test solution A)	DIN EN 60112	CTI	600
Dielectric constant – 100 Hz	IEC 60250	-	2,1
Dielectric constant – 1 MHz	IEC 60250	-	3
Dielectric dissipation factor – 100 Hz	IEC 60250	10 ⁻⁴	3,9
Dielectric dissipation factor – 1 MHz	IEC 60250	10 ⁻⁴	10
Dielectric strength	IEC 60243-1	kV/mm	45

The data given are standard values, which in our experience are subject to additional technical studies. These values are influenced by the design, processing conditions and environmental influences. The suitability of a material for a given application lies within the responsibility of the operator. Typing and printing errors reserved.