

## ROBALON-GL

Molybdenum disulphide alloy | addition of glass micro-beads

	Test method	Unit	Value
<b>General properties</b>			
Color	-	-	black
Density	DIN EN ISO 1183	g/cm <sup>3</sup>	0,97
Average molecular weight	-	g/mol	9,20 * 10 <sup>6</sup>
Flammability	UL94	3/6mm	HB/HB
Water absorption	DIN EN ISO 62	%	<0,01
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527-1	MPa	19
Elongation at break	DIN EN ISO 527-1	%	>370
Tensile modulus of elasticity	DIN EN ISO 527-1	MPa	670
Notched impact strength	-	-	-
Shore hardness	DIN EN ISO 868, 15s	scale D	64
Compression set	Stress 2N/mm <sup>2</sup> , 1 Std.	-	Compression ~ 2 %   23°C
	Stress 10N/mm <sup>2</sup> , 56 Std.	-	Compression ~ 20 %   80°C
<b>Thermal properties</b>			
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 <sup>-6</sup> K <sup>-1</sup>	200
Service temperature, long term	-	°C	-200 ... 80
Service temperature, short term (max.)	-	°C	110
<b>Electrical properties</b>			
Volume resistivity	DIN IEC 60093	Ω * cm	10 <sup>10</sup>
Surface resistivity	DIN IEC 60093	Ω	10 <sup>10</sup>
Comparative tracking index (test solution A)	DIN EN 60112	CTI	600
Dielectric constant – 100 Hz	-	-	-
Dielectric constant – 1 MHz	-	-	-
Dielectric dissipation factor – 100 Hz	-	-	-
Dielectric dissipation factor – 1 MHz	-	-	-
Dielectric strength	-	-	-

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.