

WEVOSIL 20001

Solventless two-component adhesive based on silicone resin. The cured polymer exhibits elastic properties as well as and excellent behavior in thermal cycle tests.

The resulting clear molding material is characterized by UV and temperature resistance up to 180°C.

Temperature range of use: -60°C to +180°C.

The casting resin is used with WEVOSIL 20001 B.

Applications: Encapsulation and coating of pressure sensitive electrical and electronic components.

Product Specification

Mixing ratio	100	parts by weight	WEVOSIL 20001 A		
	100	parts by weight	WEVOSIL 20001 B		
Viscosity (22°C)	WEVOSIL 20001 A:		1.000	– 1.500	mPa·s
	WEVOSIL 20001 B:		1.000	– 1.500	mPa·s
	Mixture:		1.000	– 1.500	mPa·s
Density (22°C)	WEVOSIL 20001 A:		0,96	– 1,00	g/cm³
	WEVOSIL 20001 B:		0,96	– 1,00	g/cm³
Colour	WEVOSIL 20001 A:		nature		
	WEVOSIL 20001 B:		nature		
Pot life (100 g)	50–60 minutes		at room temperature		
	The curing time depends on the temperature, the pot life, the thickness of the layer and the casting volume				
Curing time	1 hour		at 100°C		

Physical Properties (after curing 1h/100°C + 2h/180°C)

		Test specification
Shore-hardness A:	35 – 45	In accordance DIN ISO 48-4:2021-02 (Pressing time 3 sec.)
Tensile strength	0,4 N/mm ²	DIN EN ISO 527-2:2012-06
Elongation at break	30 %	DIN EN ISO 527-2:2012-06
Modulus of elasticity	1,7 N/mm ²	DIN EN ISO 527-2:2012-06
Thermal conductivity	0,20 W/m·K	DIN EN ISO 22007-2:2015-12
Glass transition temperature	-40°C	TMA ISO 11359-2:2021-11
Coefficient of Expansion	275 ppm/K	< T _g , TMA ISO 11359-2:2021-11
	330 ppm/K	> T _g , TMA ISO 11359-2:2021-11
Thermal class	H	In accordance DIN EN 60085:2008-08
Water absorption	<0,20 %	after 30 days immersion
Flammability	–	In accordance UL94

Electrical Properties

		Test specification
Dielectric strength	–	In accordance DIN EN 60243:2014-01
Volume resistance 23°C/50% r.h.	10 ¹³ Ω·cm	DIN EN 62631-3-1:2023-10
Surface resistance 23°C/50% r.h.	10 ¹⁴ Ω	DIN EN 62631-3-2:2017-01
Dielectric constant ε at 50 Hz, 23°C at 1 kHz, 23°C at 1 MHz, 23°C	2,75 2,75 2,77	In accordance DIN EN IEC 62631-2-1:2018-12
Dissipation factor tan δ at 50 Hz, 23°C at 1 kHz, 23°C at 1 MHz, 23°C	0,004 0,001 0,022	In accordance DIN EN IEC 62631-2-1:2018-12
Comparative tracking index	CTI 600	In accordance DIN EN 60112:(2010-05)

Packaging: 10 kg und 25 kg-buckets

Shelf life: in original closed cans or drums, dry storage between 15°C and 25°C, 6 months after production

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