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TECHNICAL DATA SHEET

ergo.® 3110 Super RTV Silicone Black

Neutral cure one-component RTV silicone formulated for use in a wide range of industrial applications. **ergo.® 3110** Super RTV Silicone BLACK is low odor and non-corrosive because the by-products of cure are chemically neutral.
The product is characterized by its high temperature resistance, mechanical strength and resistance to vibration as well as its excellent weather and chemical resistance.

Typical applications

ergo.® 3110 Super RTV Silicone BLACK is an adhesive and sealant that achieves optimum seals, protection and adhesion to a wide variety of materials. It is typically used in situations that require bonds or seals to surfaces in heating or cooling devices, or in applications where electronic components require protection from external forces (vibration, impact, moisture and chemicals):

Bonding and sealing parts in household appliances (e.g. ovens and ceramic hobs), seals in electronic components (e.g. accumulators), seals in automotive applications (e.g. intake manifolds, oil pumps, oil pans, camshaft bearing covers, gearbox covers and front covers) and door seals.

Characteristic features in liquid condition:

Chemical basis	modified oxime silicone
Appearance	black, thixotropic paste
Density @ 20°C	1.25 g/cm³
Viscosity @ 25°C (EN 12092, Cone-plate-system, MK25)	
Shear rate 10 s^{-1}	60.000 – 80.000 mPa•s
100 s^{-1}	15.000 – 25.000 mPa•s
Extrusion rate (At 25°C, 5.5 bar, 3 mm opening)	150 – 250 g/ 15 seconds
Volume shrinkage	5 – 7 %
Loss of weight	1 – 3 %
Skinning time	5 - 10 minutes
Curing process	2 – 3 mm/ 24h at 50% r.h.

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Typical characteristics of cured product (after curing @ 23°C/ 50% r.h.)

Tensile strength (DIN 53504 S2)	~ 2 N/mm²
Elongation at break (DIN 53504 S2)	~ 550 %
Recoverability (DIN EN 27389)	~ 90 %
Hardness (Shore A)	~ 30
Thermal range	-60°C up to +260°C Shortly up to +300°C
Coefficient of elongation (ASTN EB-31)	20 x 10^{-5} K^{-1}
Dielectric constant @ 1 MHz (ASTM D-150)	2.8
Shelf life	1 year in cartridges 2 years in metal tube or can