BAOLONGDA GROUP

Technical Data Sheet

03/2018

Characteristics

BLD-6609 is a two-component, neutral-curing silicone sealant. It is usually used for the second bonding and sealing of insulating glass.

Product Features

- The curing speed can be adjustable, and the deep-seated curing speed is fast, and it is suitable to be used in the factory
- Neutral curing, non-corrosive to metal, coated glass
- High modulus and high strength
- No unpleasant odor during curing
- Excellent resistance to weather, UV, ozone and water
- Remains flexible over a temperature range of -58°F(-50°C) to 302°F(150°C)

Data Sheet

1. Uncured product characteristics

Appearance	Homogeneous and delicate paste
Odor	Alcoholic
Color	White, black
Fluidity after mixing	0
Specific gravity at 25°C	1.7g/ml
Extrusion rate, g/min	300

2. When curing

After mixing the A and B components of BLD-6609 at a volume ratio of A:B = 10:1, the whole begins to thicken and solidify. The curing rate increases with increasing temperature and humidity.

Applicable period, min	60
Density after curing, g/ml	1.60
23°C, 50% RH, surface drying time, min	70

3. Product performance after curing

Shore hardness A	56
100 % modulus of elasticity, MPa	0.8
Tensile strength, MPa	0.9
Elongation at break, %	110

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Technical Data Sheet

03/2018

4. Thermal properties (2mm film thickness)

Lower limit of service temperature	-50°C
Upper temperature limit for continuous use	+150°C (maximum temperature at 1000h)
Maximum instantaneous operating temperature	+185°C (Maximum temperature at 72h)

5. Adhesive properties

After curing at 23°C x 50% RH for 14 days, refer to standard GB/T13477.18-2002, 2mm specimen thickness on the surface of the substrate is stretched in 180° direction and the percentage of peel strength and cohesive damage area is recorded.

Glass, MPa	0.8
AG3 Aluminum, MPa	0.9
Stainless steel/glass, MPa	0.9
Type of damage	100% cohesive damage

Areas of application

- For second pass sealing of insulating glass
- Other applications after testing and confirmation of correctness

Direction for use

- Clean the surface of the material to be bonded with acetone or other solvent and keep it dry before application.
- Ensure that the sealant is in close contact with the substrate and that there are no gaps in the adhesive.
- Apply low viscosity tape to the area to be protected, trim and remove the tape before the adhesive has cured.

Restrictions on use

- Not suitable for use on oily or oozing surfaces, frosty or wet surfaces and should not be applied to surfaces where the temperature of the material is below 4°C or above 40°C.
- Not suitable for use in densely ventilated areas (silicone sealants need to be cured by absorbing moisture from the air)
- Not suitable for use in areas subject to abrasion or physical damage.
- Not suitable for use in areas where there is direct contact with food surfaces.
- Not to be used as a structural adhesive.

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Technical Data Sheet

03/2018

Cautions

- Before using the product, the user must carry out compatibility and adhesion tests to confirm that the product and the substrate can meet the requirements of the application.
- The product should be designed correctly according to the actual force of the interface, so that the sealant has the proper effect and meets the displacement capacity of the interface.
- The width of the butt joint should be not less than 6mm but not more than 15mm and the thickness of the adhesive layer should be not less than 3mm but not more than 5mm.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; avoid contact with children

Storage

The silicone sealant should be stored in a cool, dry place below 27°C. The storage period is 9 months from the date of manufacture.

Transport

This product is to be transported as non-dangerous goods.

Colors

Black, white.

Packaging specifications

Component A in 190L drums; Component B in 19L drums

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