AU589V

UV-CURABLE GASKET

KEY BENEFITS

- Great mechanical properties
- Soft type
- Great durability
- Color change by UV irradiation

DESCRIPTION

AU589V is a one component, solvent free, light-cure gasket material based on urethane acrylate. It has excellent flexibility and toughness to apply as water/dustproof gasket. This product is supplied in viscous paste form and can be dispensed by semi- or fully automated systems such as air, mechanical and jet valve. Its ability to cure within seconds after light exposure allows faster processing, higher productivity, lower material cost resulting overall in lower production costs.

APPLICATIONS

AU589V has been developed for Cured in-Place gasket (CIPG) applications such as electrical enclosures, electronic casing and automotive electronic components enclosures to provide airtight, watertight and dustproof systems.

METHOD OF USE

Before use, AU589V should be kept at room temperature for at least one day. AU589V can be used with various kinds of dispenser such as air, mechanical and jet valve. It should be applied at temperatures from 20°C to 30°C. High pressure mercury lamp, metal halide lamp with UV-A wave irradiation dose of 4000-6000 mJ/cm² or more is recommended. UV-LED lamp with wavelength below 365 nm can also be used for curing. After curing, it should be compressed at 20% ~ 50% compression ratio for reliable waterproof performance.
Substrate should be clean and free of grease, oil or other residues prior to dispensing to ensure optimum adhesion.

PACKAGING

- 50 g syringe
- 6 oz cartridge
- 12 oz cartridge

STORAGE

AU589V can be stored for 8 months after production in the original, unopened packaging in a dry place at temperatures between +0°C and +25°C. Product should be protected from light.

CHARACTERISTICS – UNCURED MATERIAL		
Appearance	**Uncured:** **Cured:**	Violet paste Dark green
Density at 23°C	**[g/cm³]**	1.2
Viscosity at 25°C	**[mPa.s]**	788,000 @0.5rpm 153,600 @5rpm
Thixotropic index Vis.@0.5rpm/vis.@5rpm	**[-]**	5.1

CHARACTERISTICS – CURED MATERIAL		
Hardness at 23°C	**[Shore A]** **[Shore OO]**	12 63
Elongation at Break at 23°C	**[%]**	480
Tensile Strength at Break at 23°C	**[MPa]**	0.8
Compression set 25% comp., 70°C, 22h 50% comp., 70°C, 22h	**[%]**	 - 6
Water absorption	**[%]**	0.5
Thermal durability 85°C 95%RH	**[Hours]**	1000
Temperature use range	**[°C]**	-40°C to 120°C

PRECAUTIONS

Proper PPEs should be used during handling. A local exhaust system is recommended at the point of curing to dissipate any heat and vapors formed during the curing process.
Refer to Material Safety Data Sheet before using and handling this product for more information.

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The information given and recommendations made herein are based on Bostik's research only and are not guaranteed to be accurate. The performance of the product, its shelf life, and application characteristics will depend on many variables, including the kind of materials to which the product will be applied, the environment in which the product is stored or applied, and the equipment used for application. Any change in any of these variables can affect the product's performance. It is the buyer's obligation, prior to using the product, to test the suitability of the product for an intended use under the conditions that will exist at the time of the intended use. Bostik does not warrant the product's suitability for any particular application. The product is sold pursuant to Bostik's Terms and Conditions of Sale that accompanies the product at the time of sale. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute permission, inducement, or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

SMART HELP

Please contact your local representative

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