



AU060R

UV-CURABLE GASKET

KEY BENEFITS

- High durability
- Color change by UV irradiation
- Excellent dispensability

DESCRIPTION

AU060R is a one component, solvent free, light-cure gasket material based on urethane acrylate. It has excellent flexibility and toughness. This product is supplied in 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

AU060R has been developed for Cured in-Place gasket (CIPG) applications such as electrical enclosures, electronic casing to provide airtight, watertight and dustproof systems.

FEATURES

- Elastic within temperatures from -40°C to 100°C
- Pass IPX7
- Low electrical conductivity
- Excellent adhesion on PC substrate, good on ABS.

METHOD OF USE

Before use, AU060R should be kept at room temperature for at least one day. AU060R 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 from 4000 to 6000 mJ/cm² or more is recommended. UV-LED lamp with wavelength below 365nm can also be used for curing. After curing, it should be compressed at 20% ~ 40% 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

- 6 oz. Cartridge
- 12 oz. Cartridge

STORAGE

AU060R can be stored for 10 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		Purple paste
Chemical type		Acrylated urethane
Density at 23°C	[g/cm³]	1.0
Viscosity at 25°C	[mPa.s]	400,000 @ 0.5 rpm 65,000 @ 5 rpm
Thixotropic index Vis.@0.5rpm/vis.@5rpm	[-]	6.2

CHARACTERISTICS – CURED MATERIAL

Hardness at 23°C	[Shore A]	30
Elongation at Break at 23°C	[%]	400
Tensile Strength at 23°C	[MPa]	4.0
Compression set 25% comp., 70°C, 22h 50% comp., 70°C, 22h	[%]	1 3
Water absorption	[%]	0.2
Thermal humidity durability 85°C 95%RH	[hour]	1,000
Temperature use range	[°C]	-40°C to 120°C
Surface resistivity	[Ohm]	1.8 x 10 ¹⁴
Volume resistivity	[Ohm.m]	1.2 x 10 ¹³

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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SMART HELP

Please contact your local representative



AU060R TECHNICAL DATASHEET, DECEMBER 2020