

FUTUREWAY® EN-8

Potting foam heat insulation adhesive

FUTUREWAY® EN-8 is a thixotropic, 2-component silicone foam which cures at room temperature. The silicone system contains no solvents or plasticizers.

Features & Benefits

- Closed-cell structure
- High thixotropic behavior
- Useful temperature range -50°C to +200 °C
- Good tightness to aqueous media
- Good UV resistance
- Good mechanical resistance
- Good chemical resistance
- Adherence optimized using plasma treat(plastics) or primer(metals).
- Corresponds to flammability UL 94 V-0
- Good low temperature flexibility

Typical Applications

- 2-component silicone foam for potting

Processing

- Processing generally takes place using 2-component mixing and metering systems. The material must be homogenized by gentle stirring in the supply vessels
- The material surfaces must be kept clear of platinum catalyst poisons such as sulfur, amine, phosphorus, chlorine and tin compounds
- Flawless silicone curing must be confirmed in advance by testing
- Small quantities of hydrogen are created during the reactive time

Curing

After mixing the A+B components, curing takes place at room temperature. A few minutes at 50-80°C causes a tack free surface of the silicone and shortened assembly time. If a low compression set is needed the gasket should be cured for 20-30 minutes at the maximum exposure temperature.

Statement: The information contained in this date sheet is intended to assist you in the design of Futureway materials. It is not intended to and does not create any explicit or implicit guaranties, including any guaranty of marketability of the goods and for special purposes. It is also not guaranteed that users can achieve the results shown in the technical specifications of this material in specific applications. They will change with different application situations, such as equipment type, environmental conditions, process conditions, etc. Users should determine the suitability of Futureway materials for each application.

Raw material data

	Unit	A component	B component
Color	-	White	Blue
Viscosity	cP	3000	3500
Density	g/cm ³	1.17	1.21

Processing data

Processing temperature	°C	26	
Operating time	min	8	
Tack free time	min	17	

Characteristics

Property	Unit	Test Method	Typical Value
Physical			
Color	-	-	Cyan
Hardness	Shore AO	ISO 7619-1	47
Density	g/cm ³	ASTM D1056	0.64
Tensile strength	kPa	ASTM D412	840
Elongation	%	ASTM D412	42
Compression Force Deflection	kPa	ASTM D1056	560
Flammability			
Oxygen index	%	GB/T 2406	30.4
Thermal			
Thermal conductivity	W/(m·K)	ASTM C518	0.13

Supply vessels, standard sizes

Packaging vessels	Unit	A component	B component
Plastic hobbock	kg/bbl	20	20
Gum tube	g/tube	200	200

Usable Life & Storage

In temperature stabilized room (5°C~30°C), original vessels may be stored for at least 6 months.

Occupational safety

Professional Association safety regulations governing commercial hygiene in the handling of reactive resins and their hardeners must be adhered to. Please observe the relevant safety data sheets.

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