

INVISISIL™ XE13-OP007 GEL

Product Description

INVISISIL™XE13-OP007 is a one-component silicone gel and an excellent candidate for optical bonding applications. This product is cured by UV exposure to become a soft, tacky gel within a few seconds. The soft nature and cushioning effect of this product can offer excellent protection for electronic assemblies from mechanical shock and vibration.

Key Features

- Convenient one component formulation
- Shelf life of 9 months
- Lower viscosity; fast leveling
- UV curable
- Soft, tacky, and sticky gel

Typical Benefits

- Longer storage period
- Suitable for larger size display
- Easier and more efficient processability
- Shock absorbing capabilities offering protection to delicate mechanical components from vibration
- Excellent resistance to corrosion

Typical Physical Properties

	Unit	XE13-OP007
Uncured Properties at 23°C		
Appearance		Transparent
Viscosity at 23°C	Pas	2.5
Specific Gravity	g/cm ³	0.98
Refractive Index		1.41
Transmittance at 400nm	%	99
Cured properties (UV LED 1000mJ/cm ² + 0.5hr at 60°C)		
Penetration	[1/4 cone] – x10	35
Lap Shear Strength at 0.3mm (Glass to Glass) *1	MPa	0.3
Lap Shear Strength at 0.3mm (Glass to PC) *1	MPa	0.3
Elongation	%	35
Dielectric Constant at 60Hz		2.8
Volume Expansion	ppm	330
Thermal Conductivity	W/mK	0.17
Haze		<0.1
Yellowness Index (D1925)		<0.3
b*		<0.1
Shelf life at 23°C	months	9

*1 Curing condition: UV LED 1000mJ/cm² + 3 days at 23°C

Typical properties are average data and are not to be used as or to develop specifications.

General Considerations for Use

- Materials such as water, sulfur, nitrogen compounds, organic metallic salts, phosphorus compounds, etc. contained in the surface of the substrate can inhibit curing.
- A sample patch should always be tested in order to determine compatibility.
- All parts should be as clean and dry as possible prior to application.
- Eye protection and protective gloves should always be worn when working with this product.
- Always maintain adequate ventilation in the workplace.
- Keep out of the reach of children.

Storage

- Store in a cool dry place out of direct sunlight, and below 23°C
- Shelf life at room temperature (23°C) is 9 months

Available Package

- 18Kg Steel Pail
- 10L Plastic (Gray)
- 1L Bottle (Black)

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment, if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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