Technical Data Sheet

DOWSIL™ 7669 Adhesive

Base polymer component for low adhesion Pressure Sensitive Adhesive (PSA)

Features & Benefits

- Stable and low adhesion
- Fast cure by Pt catalyst

Composition

- Dimethyl, methylvinyl siloxane

Applications

- Applications requiring low adhesion and good wet-out performance for protective film
- Flexibility to use with other addition cure PSA to control peeling adhesion

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Type		Reactive polysiloxane
Physical Form		Liquid
Appearance		Clear
Active Ingredients	%	> 97
Viscosity at 25°C (77°F)	cps	55,000
Peel Adhesion[1]	oz/in	< 0.12

1. 15 u dry PSA, 50 u PET film, 2% SYL-OFF™ 7387 Crosslinker, 1.6% SYL-OFF™ 4000 Catalyst, curing 1 minute at 150°C.

Description

DOWSIL™ 7669 Adhesive is a silicone PSA that can be applied in industrial protective film with low adhesion. It could also be used by mixing with other additional cure PSAs like DOWSIL™ 7667 Adhesive to get higher adhesion.

How to Use

DOWSIL™ 7669 Adhesive can be coated on backing material directly as itself or blending with other PSA and normally used with SYL-OFF™ 7387 Crosslinker and SYL-OFF™ 4000 Catalyst. Typical substrate is PET film. To improve bonding strength with substrate, anchorage additive can be applied. Corona treatment or primer treatment on substrate would be the best option to get good anchorage performance.

®™Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

© 2017–2023 The Dow Chemical Company. All rights reserved.

Bath Preparation

To use this product effectively, it could be blended with the appropriate SYL-OFF™ PSAs, catalysts, crosslinkers and solvents.

The PSA coating cures by an addition reaction in the presence of heat.

The following procedure is recommended for the preparation of coating bath. Equipment should be clean and dry, preferably constructed from stainless steel or glass.

1. DOWSIL™ 7669 Adhesive would be diluted by solvent heptane, toluene or other aliphatic solvents. When using a solvent, always provide adequate ventilation.
2. Add a crosslinker such as SYL-OFF™ 7387 Crosslinker, anchorage additive and disperse thoroughly.
3. Add catalyst such as SYL-OFF™ 4000 Catalyst and disperse thoroughly again.

The following formulation is recommended as a starting point:

Component	Parts by Weight
DOWSIL™ 7669 Adhesive	100
SYL-OFF™ 7387 Crosslinker	1.4
SYL-OFF™ 4000 Catalyst	1.6
SYL-OFF™ 297 Anchorage Additive	1.3
Solvent	120

NOTE: When transferring flammable liquids from one container to another, there is a fire risk due to static electric charge build-up. This risk can be minimized by connecting both containers to a common ground. When diluting with any solvent, refer to the solvent vendor's safety data sheet for information on physical and health hazards associated with the solvent and use of ventilation, PPE, bonding and grounding or other measures that can minimize or eliminate these risks.

Bath Life

The life of the formulated bath viscosity varies considerably with bath concentration, the solvent, the specific formulation and the temperature of the surroundings. Under 25°C the bath should still be usable within 4 hours.

Handling Precautions

It is recommended that safety glasses and rubber or plastic gloves be worn when handling this product.

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life and Storage

When stored at or below 35°C (95°F) in the original unopened containers, this product has a usual life of 24 months from the data of production.

Packaging Information

DOWSIL™ 7669 adhesive is available in pail packaging of 16 kg and drum packaging of 200 kg.

®™Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

© 2017–2023 The Dow Chemical Company. All rights reserved.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health and Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

dow.com

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

®™Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow
DOWSIL™ 7669 Adhesive
© 2017–2023 The Dow Chemical Company. All rights reserved.

Form No. 30-1334-01-0723 S2D