Product Information Adhesives

Dow Corning[®] 7646 Adhesive

FEATURES

Low adhesive force

COMPOSITION

• Polydimethy/methylvinyl siloxane

Pressure sensitive adhesive tape

APPLICATIONS

Applications requiring low adhesion and good wet-out performance for protective tape/film

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Test	Property	Unit	Result
Physical form			Viscose Liquid
Appearance			Clear, Colorless
Nonvolatile content		%	> 99%
Viscosity at 25°C		mP s	50,000
(77°F)			
Peel adhesion		oz/in	<0.1

DESCRIPTION

Dow Corning[®] 7646 Adhesive is consisted of 100% active ingredients that especially give low adhesion performance for silicone pressure sensitive coating. It could be applied in industrial protective film of adhesive tape needed to control of adhesion. It shows excellent wet-out performance to various target material such as glass, metal panel, display screen and adhere well with great wet-out performance itself though it has very lower adhesive force.

7646 Adhesive can be blended with additional cure type PSAs like *Dow Corning*[®] 7651 Adhesive, *Dow Corning*[®] 7652 Adhesive, *Dow Corning*[®] 7657 Adhesive PSA etc., in order to adjust adhesion or reduce adhesive force.

HOW TO USE

7646 Adhesive can be coated on backing material directly as itself or blending with other PSAs and normally used with about 1.0 part *Syl-Off*[®] 7678 Crosslinker and 0.5 part *Syl-Off*[®] 4000 Catalyst.

To improve bonding strength with backing material, *Syl-Off*[®] 7689 Crosslinker can be applied rather than *Syl-Off*[®] 7678 Crosslinker with SL 9250 Anchorage Additive, however primer treatment would be best option to get food anchorage performance.

This product is supplied as a 100% solid content, and it can be further dilute in compatible solvent like toluene, xylene and so on. When using any solvent, always provide adequate ventilation.

Once it is mixed with its crosslinker and catalyst, quick usage within 6~8 hours is recommended for stable performance.

Cure

When used in the manufacture of pressure sensitive constructions, catalyzed 7646 Adhesive is normally coated onto flexible substrates such as Polyester, Polyolefin PTFE, or Polyimide film and be cured at over 120°C for 1 minute in as vented, continuous coating oven. Air flow patterns, air volume and velocity will have an impact on adhesive curing speed.

If the cure speed needs to be increased or process and backing material allowed only lower temperature, $Syl-off^{\textcircled{0}}$ 4000 Catalyst should be increased by up to 1.5 %.

However insufficient temperature can cause reside and poor anchorage performance by uncured adhesive.

Note: The catalyst in this adhesive system is required to obtain pressure sensitive properties. It is also subject to contamination by peroxides and other materials. Clean all mixing and coating equipment and use dedicated new containers for mixing when possible.

HANDLING PRECAUTIONS

ATTENTION: Container will have vapor and/or product residues when emptied. All hazard precautions on label must be observed when handling emptied containers. DO NOT CUT OR WELD CONRAINERS. DO NOT REUSE CONTAINERS.

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at www.dowcorning.com.

You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

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USABLE LIFE AND STORAGE

When stored at or below 32°C (90°F) in the original unopened containers, 7646 Adhesive has a usable life of 15 months from the date of production.

PACKAGING INFORMATION

This product is available by pail size with 18 kg.

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 Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

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

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