



## Technical Data Sheet

# DOWSIL™ EL-9241 DM Silicone Elastomer Blend

### FEATURES & BENEFITS

- Similar to DOWSIL™ 9041 Silicone Elastomer Blend, but contains less than 0.1% D4 and D5
- Non-flammable
- Not tested on animals
- Contributes a silky, smooth feel similar to DOWSIL 9041 Silicone Elastomer Blend in formulations
- Long-lasting skin feel
- Provides thickening in anhydrous and w/o emulsion formulations
- Hot or cold processing
- Listed in the Catalogue of Cosmetics Ingredients Used in China

### COMPOSITION

- Silicone elastomer blended with a low viscosity (5 cSt dimethicone)

INCI name: Dimethicone (and) Dimethicone Crosspolymer

### APPLICATIONS

- Skin care
- Color Cosmetics

### TYPICAL PROPERTIES

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

Property	Unit	Result
Viscosity	mm <sup>2</sup> /s	300,000–500,000
Appearance		Clear to translucent, colorless to light amber, no significant particulate
Cyclotetrasiloxane (D4) content	%	< 0.1
Cyclopentasiloxane (D5) content	%	< 0.1

### DESCRIPTION

DOWSIL™ EL-9241 DM Silicone Elastomer Blend is similar to DOWSIL 9041 Silicone Elastomer Blend, but contains less than 0.1% D4 and D5.

### HOW TO USE

To incorporate DOWSIL EL-9241 DM Silicone Elastomer Blend into a formula, it should be combined with the oil/silicone phase. Make certain DOWSIL EL-9241 DM Silicone Elastomer Blend is uniformly dispersed in the oil/silicone phase before proceeding. The viscosity of the DOWSIL EL-9241 DM Silicone Elastomer Blend decreases as it is diluted with other oils.

Figure 1 illustrates the effect when XIAMETER™ PMX-200 Silicone Fluid 5 CS is used as the diluent. DOWSIL EL-9241 DM Silicone Elastomer Blend is a high viscosity material, but like DOWSIL 9041 Silicone Elastomer Blend, it is strongly shear thinning and can be pumped using suitable equipment. Information about suitable equipment can be found in the product information sheet for DOWSIL™ 9040 Silicone Elastomer Blend. Because it contains a non-volatile carrier fluid DOWSIL 9041 Silicone Elastomer Blend can be used as a binder in pressed powder cosmetics.

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.

## **HANDLING**

### **PRECAUTIONS**

#### **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 [WWW.CONSUMER.DOW.COM](http://WWW.CONSUMER.DOW.COM), OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.**

## **USABLE LIFE AND STORAGE**

When stored between -30°C (-22°F) and 60°C (140°F) in the original unopened containers, this product has a usable life of 24 months from the date of production.

## **PACKAGING INFORMATION**

This product is available in 15 kg cans and 180 kg drums.

Samples are available in 0.4 kg tubs.

## **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, [www.consumer.dow.com](http://www.consumer.dow.com) or consult your local Dow representative.

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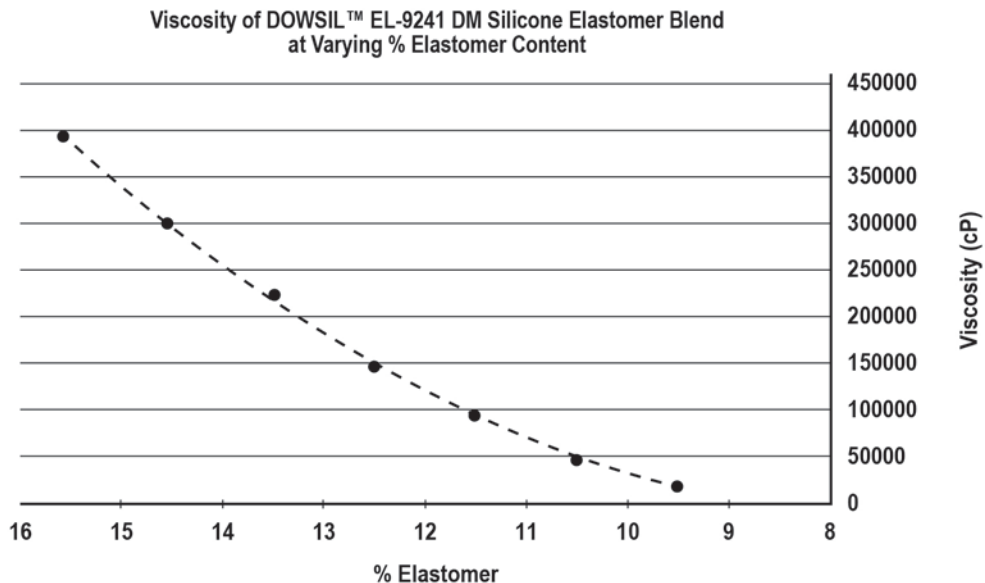
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DOWSIL™ EL-9241 DM Silicone Elastomer Blend

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**Figure 1:** DOWSIL™ EL-9241 DM Silicone Elastomer Blend dilution curve (diluted with XIAMETER™ PMX-200 Silicone Fluid 5 cSt).



**Figure 2:** Neat DOWSIL™ EL-9241 DM Silicone Elastomer Blend has been compared to neat DOWSIL™ 9041 Silicone Elastomer Blend using paired comparison sensory evaluation using panelists. No significant differences were found when comparing the materials for gloss, film residue, greasiness, slipperiness, smoothness, powdery feel, spreadability, and wetness.

