

**DESCRIPTION:** A NMP-free, TEA-free, aliphatic, silicone-modified, polyester-based, water-borne polyurethane dispersion.

**SUGGESTED USES:** L-3645 was designed primarily for topcoat applications where slip and abrasion resistance properties are required. L-3645 contains a non-fugitive silicone component that provides low surface tension characteristics on flexible and rigid substrates including leather, plastics, metals and textiles. It also demonstrates exceptional dye transfer resistance in automotive leather seating and dry-erase, white board applications when crosslinked.

**CHARACTERISTICS:**

- < May be formulated into low surface tension coatings
- < Exceptional dye transfer resistance
- < Excellent abrasion resistance
- < Higher silicone content (~2X) than L-2857
- < Crosslinkable for improved adhesion and performance
- < Contains dipropylene glycol dimethylether (DMM) and dipropylene glycol monomethyl ether (DPM) co-solvent

**APPLICATION:** L-3645 may be used as a sole vehicle or blended with acrylic emulsions for spray or rotogravure applications. Rheology modifications can be made with associative thickeners for alternative application methods.

**DRYING:** L-3645 can be air dried, if desired, depending on film thickness. Typical oven drying temperatures and dwell times for aqueous coatings are sufficient to produce optimal film properties.

### PHYSICAL PROPERTIES\*

<b>SOLIDS</b>	<b>35% (±1%)</b>
<b>VISCOSITY</b>	<b>50-500 cps</b>
<b>Ph</b>	<b>7.0-9.5</b>
<b>DENSITY</b>	<b>1.04</b>
<b>SOFTENING POINT</b>	<b>152°C</b>
<b>VOC CONTENT</b>	<b>94 g/l (as supplied)</b> <b>226 g/l (less water)</b>
<b>SWARD HARDNESS</b>	<b>35</b>

### TENSILE PROPERTIES

<b>(Tested at 20 inches/minute)</b>	
<b>ELONGATION</b>	<b>300 %</b>
<b>TENSILE STRENGTH</b>	<b>&gt;41 MPa</b>
<b>100% MODULUS</b>	<b>21 MPa</b>
<b>200% MODULUS</b>	<b>31 MPa</b>
<b>300% MODULUS</b>	<b>NA</b>

**SPECIAL NOTE:** Mix well before removing product from containers. Container lids must be re-sealed tightly with the plastic header film after each use.

**STORAGE STABILITY:** The product must be stored in a controlled environment between 5 – 40°C and protected from direct exposure to sunlight. Shelf-life is 1 year from manufacture date (see lot # for date).

*This information is believed to be accurate but is not guaranteed and we assume no legal responsibility for its accuracy. User should test the product to determine its suitability for their particular purpose. Nothing presented here is to be construed as a recommendation or inducement to use our product. We shall not be liable for any claims for damages, whether based on contract, negligence, and strict liability in tort or otherwise. Our products are sold without any implied warranty of merchantability or fitness for a particular purpose.*

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