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## Hauthane L-3645

**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 HD-2602
- 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>	35% (±1%)
<b>VISCOSITY</b>	
<b>pH</b>	7.0-9.5
<b>DENSITY</b>	8.7 lbs/gal
<b>SOFTENING POINT</b>	305°F
<b>VOC CONTENT</b>	94 g/l (as supplied) NA 226 g/l (less water)
<b>SWARD HARDNESS</b>	35

### TENSILE PROPERTIES

(TESTED AT 20 INCHES/MINUTE)	
50-500 cps	
<b>ELONGATION</b>	
300%	
<b>TENSILE STRENGTH</b>	>6000 psi
<b>100% MODULUS</b>	3000 psi
<b>200% MODULUS</b>	4500 psi
<b>300% MODULUS</b>	

**\*Provisional specifications**

*L-3645cl*

*Revised 7/15*