



**Owensboro Specialty Polymers, Inc.**  
Chemistry that Connects, People that Care

**Owensboro Specialty Polymers, Inc.**  
5529 Highway 2830  
Owensboro, KY 42303  
[www.onssp.com](http://www.onssp.com)  
Contact us at [info@onssp.com](mailto:info@onssp.com)

# DARATAK<sup>®</sup> 56L

## Adhesive Emulsion

Daratak 56L is a very high molecular weight polymer with a low emulsion viscosity used in applications that require higher heat resistance (up to 280° F depending on coating thickness and additives) than found in typical polyvinyl acetate polymers. It is used in heat resistance adhesives and wood glues as well as some thermal forming applications. Its films exhibit a relatively high degree of solvent resistance and a high blocking point.

Daratak 56L is stabilized with hydrolyzed polyvinyl alcohol (PVOH) which imparts better shelf life with less settling. It is easily compounded with standard adhesive ingredients.

In adhesive formulations, Daratak 56L may be employed to obtain very good adhesive and tensile strengths, while minimizing themoplasticity and cold flow. These properties are particularly important in adhesives which may be subjected to a wide range of temperatures. Daratak 56L exhibits good bite in wood substrates and has found wide application in wood glues both by itself and in compounded formulations. It is fast drying and has quick break. As a fast film former, it is used where quick fiber tear is desired.

### PRODUCT SPECIFICATIONS

Total Solids	54-56%
pH	5.5-7.0
Viscosity	300-600 cps (Brookfield #3 spindle, 60 rpm, 25° C)
Residual Monomer	<1%

### TYPICAL LATEX PROPERTIES

Description	Milky white liquid with a slight vinegar odor
Average Particle Size	1.0 microns (approximate)
Weight/gallon, Emulsion	9.1 pounds
Weight/gallon, Solids	9.93 pounds
Specific Gravity	1.19
Mechanical Stability	20+ minutes
Borax Compatibility	No
Freeze Thaw Stability	No
Shelf Life Recommendation <sup>1</sup>	1 year
Recommended Storage Temperature	35-85° F

### TYPICAL FILM PROPERTIES

Color/Clarity	Clear with a slight haze
Gloss	Low
Odor	None
Water Resistance	Good
Light Stability	Excellent
Aging Characteristics	Excellent
Film Consolidation	Good
Tg	37° C

### FDA CLEARANCES

Components of this emulsion comply with FDA regulation 175.105 and 176.170, and 176.180 for use in food packaging, adhesives, and coatings.

1. Maximum recommended shelf life under optimal storage conditions. Shelf life will vary depending on storage conditions.

Literature code OSP\_TDS\_Daratak56L\_Rev5  
Issue Date: April 28, 2015

The information presented herein is based on the best available data and is believed to be true and accurate. Please read all statements, recommendations, or suggestions in conjunction with our conditions of sale which apply to all goods supplied by us. No responsibility for the use of these statements, recommendations, or suggestions is assumed by the supplier, nor are they intended as a recommendation for any use which would infringe any patent or copyright. The buyer bears sole responsibility for determining suitability of the product for their application.