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TECHNICAL DATA SHEET

Silmer[®] H E4

Silicone Hydride Functional Pre-polymer

DESCRIPTION

Silmer[®] H E4 is a reactive multi-functional silicone hydride pre-polymer. It is used to modify polymers to improve their surface and physical properties.

TYPICAL PROPERTIES

Appearance	Clear liquid
Viscosity, cps @ 25°C	25
Active Content, %	100
Specific Gravity @ 25°C	1.01
Molecular Weight	2,100
Equivalent Weight	420
SiH content, %	0.235

APPLICATION & USES

Silmer H E4 can be co-reacted into various polymers and UV cured systems for coatings, plastics, resins and other applications to incorporate a silicone moiety into the polymer structure. When co-reacted during the polymerization stage, **Silmer H E4** improves the surface and physical properties of the polymers. These benefits include improved slip, antiblocking, mar resistance, surface smoothness, flexibility and hydrophobicity. The hydride functionality in **Silmer H E4** gives a permanent binding into the matrix of the polymers.

The typical recommended amount of **Silmer H E4** ranges from 2.0-5.0%.

SHELF LIFE

When stored in the original, unopened containers between 10 and 40°C, **Silmer H E4** has a shelf life of 36 months from date of manufacture.

PACKAGING

Silmer H E4 is supplied in 20kg pails and 200kg drums.

Legal Disclaimer

Siltech Corporation believes that the information in this technical data sheet is an accurate description of the typical uses of the product. Siltech Corporation, however, disclaims any liability for incidental or consequential damages, which may result from the use of the product that are beyond its control. Therefore, it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual property right.

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