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TECHNICAL DATA SHEET

Silmer® OH C50

Hydroxy-Functional Silicone Pre-polymer

DESCRIPTION

Silmer® OH C50 is a reactive silicone pre-polymer with three hydroxyl reactive sites. It is used to modify various polymers in order to improve their surface and physical properties.

TYPICAL PROPERTIES

Appearance	Clear Liquid
Viscosity at 25°C, cps	600
Solid content, %	100
Hydroxyl Value	10-20
Molecular Weight, gm/mol	11,600
Equivalent Weight, gm/mol	3,800

APPLICATION & USES

Silmer OH C50 can be reacted into various polymers for coatings, plastics, resins and other applications to incorporate the silicone into the polymer structure. When co-reacted during the polymerization stage, **Silmer OH C50** improves the surface and physical properties of the polymers. These benefits include better slip, antiblocking, mar resistance, surface smoothness, flexibility and hydrophobicity.

The hydroxyl functionality in **Silmer OH C50** gives a permanent bond into the matrix of condensation cured polymers. Typically **Silmer OH C50** is reactive with polymers or systems that contain the following reactive groups:

- isocyanates
- epoxide
- carboxylic acid
- esters

Typical usage levels are between 1.0 - 3.0% by weight. Some properties continue to benefit from higher use levels.

SHELF LIFE

When stored between 10 and 40°C in the original unopened container, **Silmer OH C50** has a shelf life of 36 months from the date of manufacture.

PACKAGING

Silmer OH C50 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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