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TECHNICAL DATA SHEET

Silmer[®]EPC C50

Epoxide Functional Silicone Pre-Polymer

DESCRIPTION

Silmer[®]EPC C50 is a high molecular weight tri-functional silicone pre-polymer with cyclic epoxide groups. It is used to modify various polymers by providing improved surface and physical properties.

TYPICAL PROPERTIES

Appearance	Clear to slightly hazy liquid
Viscosity at 25°C, cps	500
Active Content %	100
Molecular Weight	11,800
Equivalent Weight	3,900
% Epoxide	1.10

APPLICATION & USES

Silmer[®]EPC C50 can be co-reacted into various alcohol, organic acid, and amine based polymers to incorporate a permanent silicone moiety into the polymer structure. It is also UV curable in presence of cationic photoinitiators and can be used in UV cured coatings, plastics, resins and other applications.

The epoxide functionality in **Silmer[®]EPC C50** gives a permanent binding into the matrix of the polymers and since it is multi-functional will provide crosslinking to the system.

Benefits of incorporating **Silmer[®]EPC C50** include provide better slip, antiblocking, mar resistance, surface smoothness, flexibility, heat resistance and hydrophobicity.

SHELF LIFE

When stored between 10°C and 40°C in the original unopened container, **Silmer[®]EPC C50** has a shelf life of 12 months from the date of shipment.

PACKAGING

Silmer[®]EPC 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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