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TECHNICAL DATA SHEET

Silmer®EP D208

Epoxide Functional Pre-Polymer

DESCRIPTION

Silmer® EP D208 is glycidyl based reactive silicone epoxy pre-polymer. It is used to modify standard epoxy resin to improve its chemical and mechanical properties.

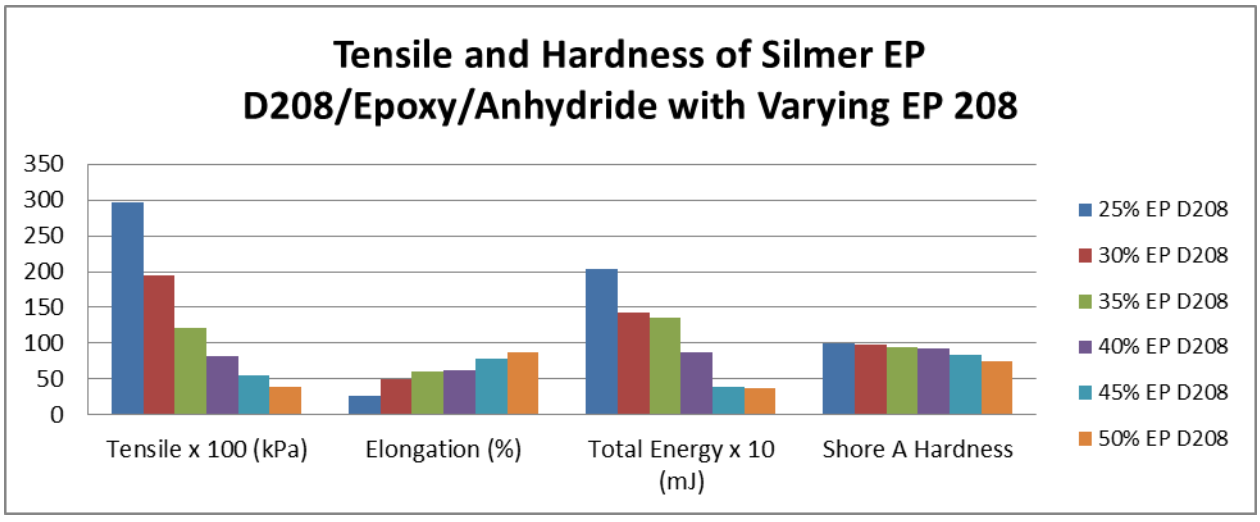
TYPICAL PROPERTIES

Appearance	Clear liquid
Colour, Gardner	1
Viscosity at 25°C, cps	200-600
Active Content %	100
Water Solubility (1 % & 10%)	Dispersible at 25°C
Specific Gravity (25°C)	0.98
Molecular Weight	2,400
Equivalent Weight	2,400

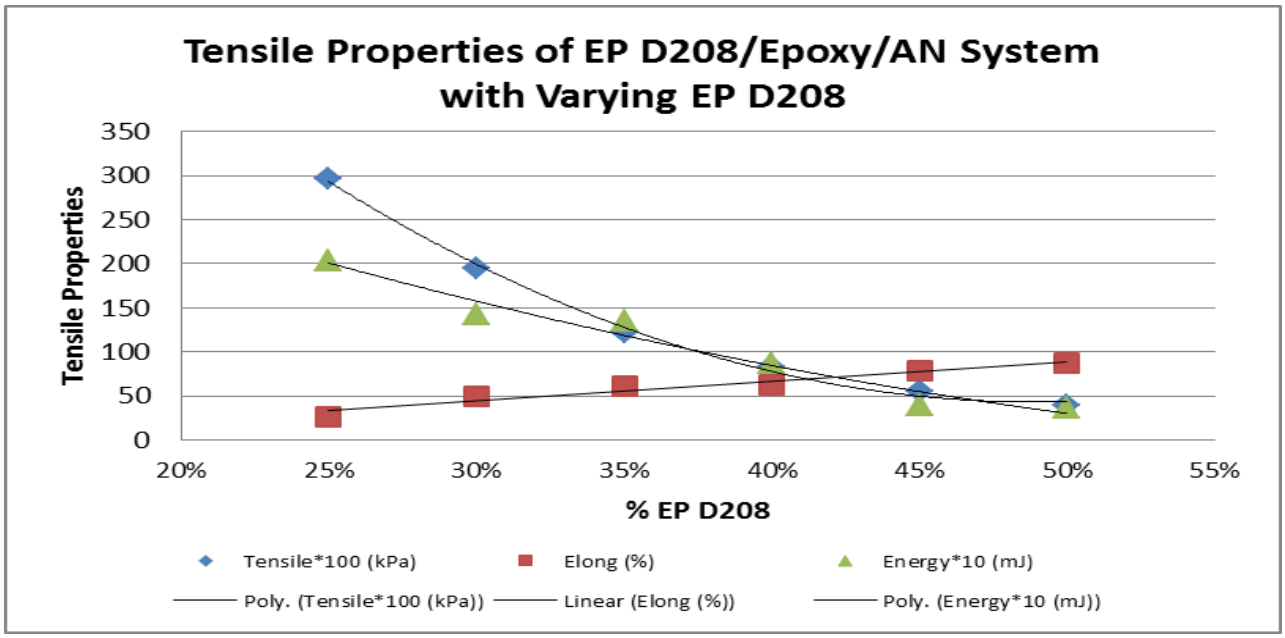
APPLICATION & USES

Silmer EP D208 is used to modify epoxy resins by grafting the silicone moiety to the polymer structure and therefore improves its chemical and mechanical properties. The epoxy resin modified with **Silmer EP D208** imparts key benefits such as improved heat stability, weatherability, flexibility, increased hardness and lowers the discoloration obtained from standard epoxy resins. **Silmer EP D208** is compatible with most epoxy resins and therefore gives a clear silicone- modified epoxy resin.

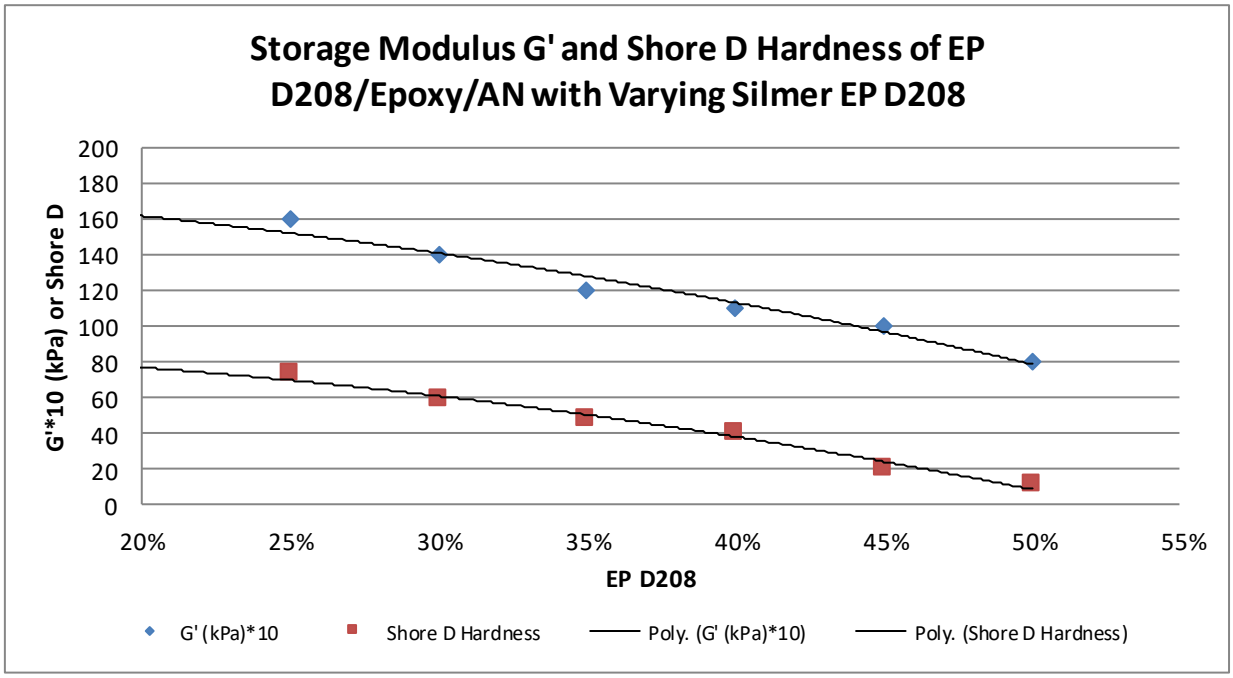
Graph 1: The mechanical properties and hardness of Silmer EP D208/Epoxy/Anhydride System with varying levels of Silmer EP D208 and curing at 110°C for 4 hours.



Graph 2: The mechanical properties of Silicone/Epoxy/Anhydride System with varying levels of Silmer EP D208 and curing at 110°C for 4 hours.



Graph 3: The rheological properties and hardness of Silmer EP D208/Epoxy/Anhydride System with varying levels of Silmer EP D208 and curing at 110°C for 4 hours.



SHELF LIFE

When stored in the original, unopened containers between 10 and 40^{0}C, **Silmer EP D208** has a shelf life of 36 months from date of manufacture.

PACKAGING

Silmer EP D208 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.