



CSD009-TM

Description: CSD009-TM is dispersion used to increase tensile strength in most silicone HCR formulations that utilize extending fillers.

Key Features:

- ◆ Increases the tensile strength of certain silicone HCR formulations.
- ◆ Ease of compounding.
- ◆ Easy to pigment.

How To Use:

CSD009-TM should be added on a two-roll mill prior to curing. The dispersion will impart improved tensile strength when used at 0.2 – 0.5 phr. This concentration can be varied depending on the end use of the silicone rubber. If exceeding 0.75 phr, bonding with metal surfaces may occur.

Storage and Shelf Life:

When stored at or below 32C (90F), this material has a shelf-life of 12 months from the date of manufacture.

Property:

- | | |
|--------------------|-----------------------|
| ◆ Classification | TM – Tensile Modifier |
| ◆ Specific Gravity | 1.08 |
| ◆ Color | Clear/Translucent |
| ◆ Polymer Type | VMQ |

Typical Value:

Food-Grade Products:

The components of CSD009-TM are listed in 21 CFR 177.2600. This FDA regulation deals with rubber articles intended for repeated use in contact with food.

Packaging:

CSD009-TM is supplied in 50lb boxes, net weight.

BENEFITS

- ✦ Easy storage.
- ✦ Fast and easy cleanup.
- ✦ Easily incorporated into existing formulations.

TURNKEY SOLUTIONS

CRI-SIL additives and dispersions are intended to quickly and easily modify your compounds to achieve your desired affect. We offer many products that can be added on a two-roll mill with very little preparation.

CRI-SIL SERVICES

- ✦ Custom silicone compounding
- ✦ Processing Assistance
- ✦ Fast Quoting
- ✦ Free Samples

Table 1: The affects of CSD009-TM when formulated with catalyst, Minusil, and CRI-SIL silicone base.*

	DHBP, 5u Minusil, CSB135		DCLBP-50, 5u Minusil, CSB260	
	CONTROL COMPOUND	Add CSD009-TM	CONTROL COMPOUND	Add CSD009-TM
Durometer, Shore A, pts	57	65	66	70
Tensile, psi	686	1013	623	1181
Elongation, %	628	262	323	208
100% Modulus, %	236	372	382	629
200% Modulus, %	408	821	574	1160
250% Modulus, %	457	985	602	N/A

*Properties obtained on a 2 mm thick (0.08 inches) slabs: DHBP catalyzed formulation press cured 10 minutes @ 175°C (350°F) and 2'4 DiClorobenzol Peroxide Catalyzed formulation press cured 10 minutes @ 121°C (250°F).

Materials were tested according to CRI-SIL Silicone Technologies Test Methods (CSTM).

Limited Warranty Information

Please Read Carefully

DISPOSAL

CRI-SIL CSD009-TM should be disposed of in accordance with local and federal regulations.

WRITING SPECIFICATIONS

The values listed here are considered "Typical Values" and therefore not intended for use in preparing specifications. Please contact CRI-SIL Silicone Technologies prior to writing specifications on these products.

MORE INFORMATION

For more information on any of our products or services please visit us on the Web at:
www.cri-sil.com

The information contained herein is offered in good faith and is believed to be accurate. However, because end-use manufacturing conditions vary, this information should not be used in substitution of actual product testing to ensure full satisfaction for the intended end use.

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