

Extrudable HTV
Silicone Rubber

SH1080U



FEATURES

General-purpose extrudable rubber

BENEFITS

- Good process ability
- Good mechanical properties

COMPOSITION

- Silicone gum
- Fumed silica

1. Product Description

SH1080U are general-purpose extrudable silicone rubber stocks which have durometers of 80. The compounds are designed to accept moderate to high levels of reinforcing or extending fillers and additives for property variation. They can be blended with each other in any proportion to achieve intermediate shore hardness.

2. Applications

- extrusions seals, sheets, tubing and profiles.

3. Key Performance Properties

- Simplicity and accuracy in compounding
- Formulation versatility to achieve and use requirements
- Easily compounded and fabricated using conventional techniques

4. Typical Property Data

Physical property	SH1080U	
Uncured compound		
Appearance	Transparent	
Williams plasticity (25°C)	270	
Cured compound (1 st cure 5min at 120°C, 2 nd cure 4 hours at 200°C)		
Curing agent	2,5-dimethyl-2,5-t-butylhexane peroxide 50% paste	2,4-dichlorobenzoyl peroxide 50% paste
Content of Curing agent phr	0.5	1.5
Mechanical properties (JIS K6249)		
Specific gravity(25°C)	1.20	1.20
Hardness (Type A)	80	82
Tensile strength MPa	10.2	10.2
Elongation %	290	290
Tear strength N/mm	36	28
Linear shrinkage %	4.0	2.8

Caution) Typical property data values should not be used as specifications

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5. How to use

For blending or pigmenting, milling with two-roll mill is the most suitable Process. Milling time should be carefully decided to secure uniformity of Materials.

6. Handling Precautions

Wear eye protection and protective glove when handling this product
Material Safety Data Sheets are available upon request from KCC

7. Safety and Storage

Use it within 12 months from the date of manufacture
Store in a cool dry place out of direct sunlight
Keep out of the reach of the children

8. Packaging

20Kg box

9. Warranty Information – *Please read carefully*

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that KCC's products are safe, effective, and fully satisfactory for the intended end use.

KCC's sole warranty is that the product will meet the KCC sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to replacement of any product shown to be other than as warranted.

KCC specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless KCC provides you with a specific, duly signed endorsement of fitness for use, KCC disclaims liability for any incidental or consequential damages.

Suggestions of use shall not be taken as inducements to infringe any patent.

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10. The date of issue

The first of issue : 2007.09.10

The revised of issue : 2009.04.01 (1st)

- ※ Please refer to MSDS if you want to know more specific usage or caution.
For further information, please see our website, www.kccworld.co.kr
- ※ SH1080U, KG, 480KG-Box, When used as silicone elastomer and processed as directed, shall meet the requirements for finished products for use in contact with foodstuffs defined in the following regulations as of the date of issuing.

BFR recommendation XV about silicone, It is the responsibility of both the manufacturer of finished food contact articles as well as the industrial food packager to make sure that these articles in their intended use are in compliance with applicable requirements on volatiles. The measurement of volatiles should be performed on the finished articles in contact with food and volatile content should not exceed 0.5%

- ※ SH1080U , the ingredients used for formulate this product are compliant with BfR recommendation XV "Silicone