

Low Hardness
Silicone elastomer

SH1020U



FEATURES

High Elongation silicone rubber

BENEFITS

- Good process ability
- Good mechanical properties

COMPOSITION

- Silicone gum
- Fumed silica

1. Product Description

SH1020U are general-purpose extrudable silicone rubber stocks which have durometers of 20. 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 properties

Properties	Test method	Unit	SH1020U
Appearance	ASTM E1767	-	Transparency
Williams plasticity	ASTM D926	-	110
Curing condition	Curing agent	-	¹⁾ KC-8
	Amounts	phr	0.5 phr
	Press 1 st cure	-	10mins, 170°C
	Oven 2 nd cure	-	4hrs, 200°C
Specific gravity	ASTM D792	-	1.08
Hardness	ASTM D792	Shore A	20
Tensile strength	ASTM D2240	MPa	6.0
Elongation	ASTM D412	%	1,300
Tear strength	ASTM D624 C	N/mm	18
Linear shrinkage	JIS K6249	%	4.3
Compression set (22hrs at 175°C)	ASTM D395	%	56

1) KC-8 : 2,5-dimethyl 2,5-di(t-butyl peroxy) hexane 45 % paste

2) KC-2 : 2,4-dichlorobenzoyl peroxide 50% paste

3) DCP : Dicumyl peroxide 40% paste

※ **Typical properties should not be used as specifications**

They are evaluated in laboratory, and can be differ from test condition.

Extrudable
Silicone elastomer

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5. How to use

For blending or coloring, 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 gloves when handling this product

7. Safety and Storage

Use it within 12 months from the date of manufacture

Store in a cool dry and place out of direct sunlight

Keep out of the reach of the children

8. Packaging

20 kg box, 480kg 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.

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10. The date of issue

The first date of issue : 2009.03.01

The revised date of issue : 2011.05.01 (2nd)

※ Please refer to MSDS if you want to know more specific usage or caution.
For further information, please visit our website, www.kccsilicone.co.kr.