Technical Data Sheet

Extrudable HTV Silicone Rubber

SH1040U

FEATURES

- General-purpose extrudable rubber

BENEFITS

- Good processability
- Good mechanical properties

COMPOSITION

- Silicone polymer
- Silica

1. Product Description

SH1040U is general-purpose extrudable silicone rubber stocks which has durometers of 40. The compounds is 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	SH1040U		
Appearance	ASTM E1767	-	Transparency		
Williams plasticity	ASTM D926	-	150		
Curing condition	Curing agent	-	1) KC-8	2) KC-2	3)DCP
	Amounts	phr	0.5	1.5	1.0
	Press 1st cure	-	10mins, 170℃	5mins, 120℃	10mins, 170℃
	Oven 2nd cure	–	4hrs, 200℃	4hrs, 200℃	4hrs, 200℃
Specific gravity	ASTM D792	-	1.11	1.11	1.11
Hardness	ASTM D2240	Shore A	40	40	36
Tensile strength	ASTM D412	MPa	7.0	7.0	8.5
Elongation	ASTM D412	%	627	450	741
Tear strength	ASTM D624 C	N/㎜	27.0	23.0	26.3
	ASTM D624 B		–	10.0	–
Linear shrinkage	JIS K6249	%	4.2	2.8	4.8
Compression set (22hrs at 175℃)	ASTM D395	%	-	33	17

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.

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Extrudable Silicone elastomer

SH1040U

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

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.