



Product description	SH1070U is general-purpose extrudable silicone rubber stocks which has durometers of 70. 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.
Applications	Extrusions seals, sheets, tubing and profiles
Key performance properties	– Simplicity and accuracy in compounding – Formulation versatility to achieve and use requirements – Easily compounded and fabricated using conventional techniques

Typical Property Data

Benefits	– Good processability – Good mechanical properties				
Typical properties	Properties	Test method	Units	SH1070U	
	Appearance	ASTM E1767	–	Transparency	
	Williams plasticity	ASTM D926	–	290	
	Curing condition	Curing agent	–	1) KC-8	2) KC-2 3) DCP
		Amounts	phr	1.0 phr	1.5 phr 1 phr
		Press 1 st cure	–	10mins, 170°C	5mins, 120°C 10mins, 170°C
		Oven 2 nd cure	–	4hrs, 200°C	4hrs, 200°C 4hrs, 200°C
	Specific gravity	ASTM D792	–	1.19	1.19 1.19
	Hardness	ASTM D2240	Shore A	75	70 75
	Tensile strength	ASTM D412	MPa	10.2	10.0 10.1
	Elongation	ASTM D412	%	390	320 431
	Tear strength	ASTM D624 C	N/mm	30.0	30.0 31.0
		ASTM D624 B		–	17.0 –
	Linear shrinkage	JIS K6249	%	4.2	3.1 4.6
	Compression set (22hrs at 175°C)	ASTM D395	%	–	29 18
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					
	Properties	Test Method	Unit	SH1070UTT901	
	Appearance	ASTM E1767	–	Transparency	
	Williams Plasticity	ASTM D926	–	270	
	Curing Condition	Curing Agent	–	KC-2	
		Amounts	Phr	1.5	
		Press 1st Cure	–	120°C 5min	

	Oven 2nd Cure	–	200℃ 4hr
Specific Gravity	ASTM D792	–	1.19
Hardness	ASTM D2240	Shore A	72
Tensile Strength	ASTM D412	MPa	9.0
Elongation	ASTM D412	%	270
Tear Strength	ASTM D624C	N/mm	28.0
	ASTM D624B		16.5
Linear Shrinkage	JIS K6249	%	3.1

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

Prperties	Test Method	Unit	SH1070UTT902	
Appearance	ASTM E1767	–	Transparency	
Williams Plasticity	ASTM D926	–	310	
Curing Condition	Curing Agent	–	KC-8	KC-2
	Amounts	Phr	0.5	1.5
	Press 1st Cure	–	170℃ 10min	120℃ 5min
	Oven 2nd Cure	–	200℃ 4hr	200℃ 4hr
Specific Gravity	ASTM D792	–	1.19	1.19
Hardness	ASTM D2240	Shore A	72	73
Tensile Strength	ASTM D412	MPa	9.5	9.0
Elongation	ASTM D412	%	310	240
Tear Strength	ASTM D624C	N/mm	27.0	29.0
	ASTM D624B		–	17.0
Linear Shrinkage	JIS K6249	%	4.2	3.0

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

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

※ Typical properties should not be used as specifications.

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

Composition	–Silicone polymer –Silica
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.
Features	– General-purpose extrudable rubber

Storage and packaging

Shelf life and storage	– Use it within 12 months from the date of manufacture. – Keep out of the reach of the children. – During transportation, try to avoid direct sunlight. Conditions of under 30℃ with shade is commended. – If store condition is not fulfilled, the products' lifetime may be affected. Also, deterioration of the products' quality within shelf life time may occur.
Packaging	20 kg box, 480kg box

Remarks

Handling	– Wear eye protection and protective gloves when handling this product. – Material Safety Data sheets are available upon request from KCC.
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Precautions	
Limitation	The featured product must be checked prior to use. 1) If applying to other purposes, defects can be generated. 2) If using non-suggested curing agents, its own properties can be altered. 3) If mixing with other products, degradation of properties and defects can be caused. 4) Additives or pigments must be used under technical support of KCC. 5) If it's first use, product must be applied after technical suggestion and assistance of KCC. Any other inquiries or methods of use can be found on KCC webpage and enquired technical support team at KCC.
Warranty information	Please read carefully This TDS is considered to be accurate. KCC's guarantee of the product will apply, only if conditions on TDS (limitation, notice, application) are fulfilled within expiry date. If not, KCC cannot guarantee the quality of the product. 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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※ 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

