



Product description	SH5870U is heat cured compounds for key pads.
Applications	Key pad, O-ring, Gasket, Sheets, Color hose
Key performance properties	<ul style="list-style-type: none"> - 70 durometer grade available - Excellent process ability and good rebound ability - Well balanced physical properties

Typical Property Data

Benefits	<ul style="list-style-type: none"> - Excellent process ability - Excellent mold releasing ability - Excellent mechanical properties 			
Typical properties	Properties	Test method	Units	SH5870U
	Appearance	ASTM E1767	-	Translucent
	Williams plasticity	ASTM D926	-	240
	Curing condition	Curing agent	-	1) KC-8
		Amounts	phr	0.5
		Press 1 st cure	-	10mins, 170°C
		Oven 2 nd cure	-	4hrs, 200°C
	Specific gravity	ASTM D792	-	1.19
	Hardness	ASTM D2240	Shore A	72
	Tensile strength	ASTM D412	MPa	7.5
	Elongation	ASTM D412	%	200
	Tear strength	ASTM D624 C	N/mm	27
		ASTM D624 B		11
	Linear shrinkage	JIS K6249	%	4.1
	Compression set (22hrs at 175°C)	ASTM D395	%	12
Volume resistivity	ASTM D267	Ω*cm	1×10 ¹⁵	
Dielectric strength	ASTM D149	kV/mm	24	
<p>1) KC-8 : 2,5-dimethyl 2,5-di(t-butyl peroxy) hexane 45 % paste</p> <p>※ Typical properties should not be used as specifications They are evaluated in laboratory, and can be differ from test condition.</p>				
Composition	<ul style="list-style-type: none"> -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	Good Compression set (22hrs at 175°C) and Good Electric Properties			

Storage and packaging

Shelf life and storage	<ul style="list-style-type: none"> - 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°C 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 Precautions	<ul style="list-style-type: none"> - Wear eye protection and protective gloves when handling this product. - Material Safety Data sheets are available upon request from KCC.
Limitation	<p>The featured product must be checked prior to use.</p> <ol style="list-style-type: none"> 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. <p>Any other inquiries or methods of use can be found on KCC webpage and enquired technical support team at KCC.</p>
Warranty information	<p>Please read carefully</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Suggestions of use shall not be taken as inducements to infringe any patent.</p>
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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

