

Product description	SL3870A/B is a two-component, high transparency and high hardness silicone rubber for optical parts molding such as LED lens. The product cures rapidly with heat.
Applications	Optical Lens, LED Lens Potting and encapsulating for optical devices and others.
Key performance properties	Excellent transparency Excellent injection molding capability

Typical Property Data

Benefits	Excellent transparency			
Typical properties	Properties	SL3870A	SL3870B	
	Uncured properties			
	Color	Transparent	Transparent	
	Viscosity (25 °C, Pa·s) ¹⁾	26	30	
	Viscosity (as mixed, 25 °C, Pa·s) ¹⁾	27		
	Refractive Index	1.410		
	Mixing ratio	1 : 1		
	Pot life (25 °C)	Min. 72 h		
	Cured properties (170 °C × 10 min. Press, Post-cure 150 °C 2h)			
	Specific gravity (25 °C)	1.04		
	Hardness (Shore A)	72		
	Tensile strength (MPa)	10		
	Elongation (%)	80		
	Tear strength (N/mm)	13.5		
	1) Rheometer, Shear rate = 10 s ⁻¹			
	Caution) Typical property data values should not be used as specifications			
	Composition	Silicone polymer Silicone resin		
	How to use	After mixing SL3870A/B as 1 : 1 ratio, respectively, dispense mixtures on the applied field.		
Features	Heat cure Addition cure type			

Storage and packaging

Shelf life and storage	When stored at or below 30 °C in the original unopened containers, product have a useable life of 12 months from the date of production. Store in a cool place(10 ~ 30 °C) out of direct sunlight. Keep out of the reach of the children.
Packaging	SL3870A : 20 kg pail SL3870B : 20 kg pail

Remarks	
Handling Precautions	· During or after mixing two parts, the air entrapment should be removed under vacuum . · Curing time can be different from temperature ranges. · Addition cure RTV silicone rubber may not cure properly If they are contacts or contains with materials below: ① Organotin and other organometallic compounds ② Silicone rubber containing organotin catalyst ③ Sulfur, polysulfides, polysulfones or other sulfurcontaining materials ④ Amines, urethanes or amine-containing materials ⑤ Phosphorous or phosphorous-containing materials ⑥ Unsaturated hydrocarbon plasticizers ⑦ Acidic materials (usually organic acids) ⑧ Some solder flux residues · Use of these products must be based on the results of your product testing, manufacturing processes and end applications. · Full environmental exposure testing is recommended for all applications. · No adhesion. · All parts should be as clean and dry as possible prior to applications. · Use product after completely cured. · Keep away from ultraviolet light. · Do not mix product and any solvent or dilute together. · Wear eye protection and protective glove when handling product. · Maintain adequate ventilation in the work place at all times. · Wash thoroughly affected skin areas with mild soap and plenty of water. · Do not dispose of the emptied container unless the contents have been completely removed and the container has been flushed with a clean neutral solvent and then dried up. · Use product within shelf life. · Pre-test is recommended to confirm adequate cure for each application. · Do not swallow. · For industrial use only · No shock and vibration. · These products are neither tested nor represented as suitable for medical or pharmaceutical uses.
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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※ 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

