

Product description	SL5171 is a transparent and addition type, two component silicone gel designed for electronic potting applications. It cures with heat in a short period of time to soft, tacky gel with flame retardant property.
Applications	Electrical and electronic potting such as IC insulation potting Power devices such as power module potting Mechanical cushion/ vibration damping material of delicate assemblies
Key performance properties	Good workability Excellent tackiness after curing Excellent electrical properties Excellent resistance to temperature extremes Environment friendly product Low viscosity Rapid heat cure (Room-temperature curable and heat accelerated cure) Soft and tacky gel Absorbs shock and protects delicate assemblies
Certifications	UL V-1

Typical Property Data

Typical properties			
	Property	SL5171 A	SL5171 B
	Uncured compound		
	Color	Translucent	Transparent
	Specific gravity	0.97	0.97
	Viscosity (25 ℃, mPa.s) ¹⁾	1,010	970
	Mixing ratio (weight or volume)	A / B : 1 / 1	
	Mixing viscosity (25 ℃, mPa.s) ²⁾	1,000	
	Pot life (25 ℃, hr)	2	
	Cured compound (20min at 130 ℃)		
	Standard curing condition	24hr@25℃ / 1hr@100℃ / 20min@130℃	
	Penetration (1/4cone, 1/10mm) ³⁾	57	
	Volatile siloxane (ppm: D ₄ -D ₁₀)	< 500	
	Dielectric strength (kV/mm)	17	
	1), 2) Brookfield Viscometer (LV) / spindle No.62, 20 rpm		
	3) Penetration (1/10mm) : Quarter cone (ASTM D1403)		
	Notice 1) Typical property data values should not be used as specifications.		
Curing			

process	
How to use	This product blend A and B to 1:1. For appropriate gel property A and B are blended homogeneously and in vacuum some cases. After blending each component pour into electric assemblies or etc. In some applications are critical to air you can vacuum whole assemblies with pouring mixed compounds. Curing takes place without any heat release but can be accelerated by heating.
Storage and packaging	
Shelf life and storage	Use the product within 12 months from the date of manufacturing. Store in a cool and dry place out of direct sunlight. Keep out of the reach of the children.
Packaging	SL5171 A : 18kg Metallic pail SL5171 B : 18kg Metallic pail
Remarks	
Handling Precautions	1) Curing time can be different from temperature ranges. 2) If contacts or contains with water, sulfur, nitrogen compounds, organic metallic salts, Sn compounds, phosphorus compounds, vulcanized rubber, etc. might cause curing faults, careful attention is needed at all times. 3) Keep out of the reach of children. Do not swallow. 4) Do not use heat, open flame, sparks or other sources of ignition. 5) For industrial use only 6) No shock and vibration 7) Store in a cool place out of direct sunlight. When stored at or below 30°C in the original unopened containers have a useable life of 12 months from the date of production. 8) All parts should be as clean and dry as possible prior to applications. 9) Use product after completely cured. 10) Keep away from ultraviolet light. 11) Wear eye protection and protective glove when handling this product. Maintain adequate ventilation in the work place at all times. 12) Wash thoroughly affected skin areas with mild soap and plenty of water 13) 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. 14) Use product within shelf life.
Warranty information	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

