

## QSiil 553 LV

### Characterization

QSiil 553LV is a 100% silicone solids elastomer, designed for electronic potting applications. The two-component system offers a flame retardant, thermally conductive, low modulus material that is readily repairable.

### Technical Data

	QSiil 553 LV A Component A	QSiil 553 LV B Component B		
Colour	Beige	Black		
Viscosity	4,000	4,000	cps	
SG	1.60	1.60		
<b>Catalyzed</b>				
Mix ratio	1:1		By weight	
Work life at 25°C*	100		min	
Cured product	Vulcanisate after 15 min at 150°C			
Durometer, Shore A	45			
Tensile	250		psi	
Elongation	240		%	
Tear	45		ppi	
100% Modulus	180		psi	
<b>Electrical properties</b>				
Dissipation Factor	0.003			
Dielectric Constant at 1,000 HZ	3.12			
Volume Resistivity	1,46*10 <sup>15</sup>		Ohm*cm	
CTI (Comparative Tracking Index)	600		Volt	
PLC (Performance Level Category)	0			
<b>UL listed (QMFZ2.E205830)</b>				
UL 94 V-0	3.0		mm	

	Thermal properties**			
Thermal Conductivity	~0.65		W/m*K	
Useful Temperature Range	-55 - 240		°C	

\*Work life is defined as the time required for the material to reach a viscosity of 25,000 cps.

\*\*Hot wire method

## Storability / Storage

This product is best when used within 24 months from date of manufacture. See product label and/or CoA for specific "Use By Date".

Product should be stored in its original, unopened container in an environment that does not exceed 38 °C (100 °F).

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case, the properties required for the intended use should be checked for quality assurance reasons.

## Properties

- 100% solids - no solvents
- Long pot life
- Low modulus
- Good elongation
- Material is UL listed (effective 3/1/13)

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The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

## Application Technique

### Mixing

In order to achieve optimum performance, the same lot number of QSil 553 LV A and QSil 553 LV B should be used.

QSil 553 LV A and QSil 553 LV B should be thoroughly mixed prior to catalyzation.

### Mixing by Hand

Catalyze QSil 553 LV A with QSil 553 LV B at a 1:1 ratio by weight using a clean plastic or metal container of approximately 3 times the volume of the material and mix by hand. Accurate weighing of all components, on a suitable scale, is essential for optimal product performance when mixing by hand.

### Mixing and Dosing with Automatic Equipment

Use a mixing system that will properly mix the QSil 553 LV A and QSil 553 LV B at a 1:1 ratio by weight.

## Deaeration

Air trapped during mixing should be removed by vacuum at 29 inches of mercury. During the process, the material will expand, and intermittent evacuation may be required.

Machine mixed material does not normally need to be deaired.

**It is absolutely important to check the compatibility in preliminary tests if unknown substrates are used.**

## Safety

Please observe our EC safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

**We reserve the right to modify the product and technical leaflet.**

**Our department for applied technique is always at your service for further information and advice.**

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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