



Technical Data Sheet

QLE 1050SB

30 Shore A, Self-Bonding, Addition Cure, One Part Elastomer for Coating Applications

PRODUCT DESCRIPTION

QLE 1050SB is a 100% silicone solids elastomer designed for use as a conformal coating.

KEY FEATURES

- 100% solids
- Transparent, ideal for pigmentation
- Fast cure at elevated temperatures
- Self-bonding to a variety of substrates

TYPICAL PROPERTIES

UNCATALYZED	
PROPERTY	QLE 1050SB
Appearance	Clear to light brown
Viscosity	500 cps
Specific Gravity	0.97

CURED PROPERTIES*	
30 minutes @ 120°C	
PROPERTY	RESULT
Durometer, Shore A	30
Thermal conductivity	0.14 W/m-K
Refractive index	1.40
Useful temperature range	- 55°C – 204°C

* For physical property testing, these materials have been cured in a closed mold at extended times to ensure full cure. When cured in an open environment, the cure time will be faster than in a closed mold, at the same temperatures. It is recommended that the material cure profile be optimized for the environment it will ultimately be used in.

CURE PROFILE	
TEMPERATURE	TIME
200°C	2 minutes
150°C	5 minutes
130°C	7 minutes



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USE and APPLICATION

This material is a one-component, translucent, heat-cured silicone elastomer. The material should only be used on clean surfaces to maximize adhesion properties. In addition, some substrates may be difficult to bond to and some, such as galvanized metal, may cause cure inhibition. When this occurs, a primer can be used to eliminate this problem.

STORAGE AND SHELF LIFE

If QLE 1050SB is stored in an environment that does not exceed 40°F then QSi will warranty the material for a period of 6 months from the date of shipment.

DISCLAIMER

The technical data listed is provided for reference only and is not intended as product specifications. QSi has the capability to customize products as requested. For sales and technical assistance please contact customer service at (804) 271-9010 or 1-800-852-3147.

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