

Technical Data Sheet

QLE 1050

30 Shore A Clear, Addition Cure, One Part Elastomer for Coating Applications

PRODUCT DESCRIPTION

QLE 1050 is a 100% silicone solids elastomer designed for use as a conformal coating, but can also be used for cloth coating applications.

KEY FEATURES

- 100% solids
- Transparent, ideal for pigmentation
- Fast cure at elevated temperatures

TYPICAL PROPERTIES

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

CURED PROPERTIES*	
10 minutes at 150 °C	
PROPERTY	RESULT
Durometer	30, Shore A
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	15 seconds
150 °C	< 60 seconds

Technical Data Sheet

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

This product is best when used within 12 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 4.4 °C (40 °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.

DISCLAIMER

The technical data listed is provided for reference only and is not intended as product specifications. CHT USA's team accepts opportunities to either modify specifications in a current product or custom formulate a new one to meet your requirements. For sales and technical assistance, please contact us at: **(804) 271-9010** or **1-800-852-3147**.

Please be sure to visit our website daily for our complete product portfolio, new product introductions and more:

www.silicone-experts.cht.com

www.quantumsilicones.com

CHT USA - Richmond, 7820 Whitepine Road, Richmond, VA 23237

Manufacturing and R&D Facility, 8021 Reycan Road, Richmond, VA 23237