

Liqui-Form 2000

Thermally Conductive, One-Part, Liquid Formable Material

- Thermal Conductivity: 2.0 W/m-K
- Stays in a gap
- Applies very low force on components during assembly
- Low Volumetric Expansion
- Excellent chemical and mechanical stability even at higher temperatures
- No curing required
- Stable viscosity in storage and in the application

Liqui-Form 2000 is a high thermal conductivity liquid formable material designed for demanding applications requiring a balance between dispensability, low component stresses during assembly and ease of rework.

Liqui-Form 2000 is a highly conformable shear-thinning material which requires no curing, mixing or refrigeration. Its unique formulation assures excellent thermal performance, low applied stress and reliable long-term performance. Liqui-Form 2000 is thixotropic and has a natural tack ensuring it stays in place in application.

Typical Properties of Liqui-Form 2000

Property	Imperial Value	Metric Value	Test Method
Physical			
Color	Gray	Gray	Visual
Low Shear Viscosity (Pa*sec) @ 0.01 sec-1 (1)	20,000	20,000	ASTM D4473
High Shear Viscosity (Pa*sec) @ 300 sec-1 (2)	110	110	ASTM B2196
Volumetric Expansion (25 to 275°C), ppm/K	600	600	ASTM E228 modified
Outgassing, % Total Mass Loss	0.53	0.53	ASTM E595
Density (g/cc)	2.8	2.8	ASTM D792
Continuous Use Temp (°F) / (°C)	-76 to 356	-60 to 180	---
Shelf Life at 25°C (months)	6	6	---
Electrical			
Dielectric Strength (V/mil) / (V/mm)	250	10,000	ASTM D149
Dielectric Constant (1000 Hz)	8.0	8.0	ASTM D150
Volume Resistivity (Ohm-meter)	10 ⁹	10 ⁹	ASTM D257
Flame Rating	V-0	V-0	U.L.94
Thermal			
Thermal Conductivity (W/mK)	2.0	2.0	ASTM D5470
Thermal Performance vs Pressure			
Pressure (PSI)	10	25	50
Thermal Impedance (°C-in ² /W)	0.13	0.12	0.12

- (1) Parallel Plate Rheometer, See Product Management Liqui-Form Application Note.
- (2) Capillary Rheometer, See Product Management for Viscosity and Dispensing Application Note

September 26, 2011



Henkel Bergquist Preferred Converter

10135 Gottschalk Parkway
Chagrin Falls, Ohio 44023
sales@rico-inc.com
+1 440-543-9209

RICO PRODUCTS INC.

All statements, technical information and recommendations herein are based on tests we believe to be reliable, and THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MARKETABILITY AND FITNESS FOR PURPOSE. Sellers' and manufacturers' only obligation shall be to replace such quantity of the product proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection therewith. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT, INCIDENTAL, OR CONSEQUENTIAL, INCLUDING LOSS OF PROFITS OR REVENUE ARISING OUT OF THE USE OR THE INABILITY TO USE A PRODUCT. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer.