



OXY-CAST 6850 FTLV with HARDENER RT-7LC

August 2015

PRODUCT DESCRIPTION

OXY-CAST 6850 FTLV with HARDENER RT-7LC is a low viscosity, versatile epoxy casting system that exhibits unusually high thermal conductivity and low thermal expansion. It is recommended for electronic/electrical casting and encapsulating applications that require a unique combination of excellent wetting, flow, good thermal expansion coefficients, thermal shock resistance, high heat transfer capabilities and outstanding electrical properties. Fully cured OXY-CAST 6850 FTLV with HARDENER RT-7LC is highly resistant to weather, water, gases and vapors, petroleum lubricants and fuels and many mild acids and alkalis.

APPLICATIONS

OXY-CAST 6850 FTLV with HARDENER RT-7LC is excellent in high voltage applications, such as power supplies, transformers, bushings and insulators.

Physical Properties

Color:	Black
Glass Transition Temperature, °C:	50
Operating Temperature Range, °C:	125
Specific Gravity of Resin:	2.0 to 2.5
Specific Gravity of Hardener:	0.95
Tensile Strength, psi:	>7,000
Compressive Strength, psi:	14,000
Hardness, Shore D:	91
Thermal Conductivity, BTU (in)/(ft ²)(hr) °F:	10.1
Dielectric Strength, Volts/Mil:	520
Dissipation Factor, 1000KHz @ 25°C:	0.0024

Handling Characteristics

Mix-Ratio by Weight, Resin to Hardener:	100 to 9
Viscosity of Resin @25°C, cps:	10,000
Viscosity of Hardener @ 25°C, cps:	120
Mixed Viscosity @ 25°C, cps:	3,000
Cure Schedule @ 25°C:	48 Hours
Cure Schedule @ 65°C:	1 Hour

Storage

Store below 25°C out of sunlight and in original unopened containers. Refer to packaging specific quote for shelf life information.

Data Ranges

The data contained herein may be reported as a typical value and/or range. Values are based on actual test data and are verified on a periodic basis.

Note

The product for which the data provided herein are furnished for informational purposes only and are believed to be accurate and reliable. Nevertheless, Henkel Corporation cannot and will not assume responsibility for the results obtained by others over whose production methods we have no control. Thus, it is the user's responsibility to determine the suitability of this product for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling, storage, disposal and use thereof. In light of the foregoing, **HENKEL CORPORATION SPECIFICALLY DISCLAIMS ANY AND ALL WARRANTIES EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND FREE FROM CLAIMS OF THIRD PARTY PATENT INFRINGEMENT, ARISING FROM THE SALE, POSSESSION, HANDLING, STORAGE, DISPOSAL, TRANSPORTATION OR USE OF THIS PRODUCT . HENKEL CORPORATION SPECIFICALLY DISCLAIMS ANY LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND, INCLUDING LOST PROFITS.** Neither the product, nor the data or discussion herein of various processes for which, are to be interpreted as an express or implied license under any Henkel Corporation patents. Henkel Corporation recommends that any and all proposed commercial application(s) using this product be evaluated for reproducibility in the exact manner and on the production equipment with which it is intended to be used before repetitive commercial production use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications of Henkel Corporation, or under which Henkel Corporation is licensed.