Laboratory Data Sheet

OXY-CAST 6057-HTC with HARDENER RT-7LC

August 2015

PRODUCT DESCRIPTION

OXY-CAST 6057-HTC with HARDENER RT-7LC is a versatile epoxy casting system developed for high performance, production, potting and encapsulating applications where low shrinkage and rapid air evacuation are required. This formulation has a very low surface tension and a flowable viscosity which affords excellent air release. It has been used as a one-fill impregnating and encapsulating resin. OXY-CAST 6057-HTC with HARDENER RT-7LC adheres to rigid plastics and laminates, metals and ceramics, has a low coefficient of thermal expansion and is readily machined and shaped with ordinary shop tools. The fully cured epoxy system is an excellent electrical insulator which provides good resistance to electrolysis, water, weather, gases and chemical compounds including mild acids and alkalis, many corrosive salts and salt solutions, petroleum products, lubricants and other organic and inorganic materials.

Physical Properties

Color:	Black
Operating Temperature Range, °C:	-60 to 125
Heat Distortion Temperature, °C:	105
Tensile Strength, psi:	9,500
Compressive Strength, psi:	14,000
Shear Strength, psi:	2,300
Self Extinguishing?:	Yes
Hardness, Shore D:	88
Coefficient of Expansion, cm/cm °C:	30 x 10^{-6}
Dielectric Strength, Volts/Mil:	450
Dissipation Factor, 100 KHz @ 25°C:	0.01

Handling Characteristics

Mix-Ratio by Weight,	
Resin to Hardener:	100 to 13
Mixed Viscosity @ 25°C, cps:	2,700 to 2,900
Specific Gravity:	1.6
Pot Life @ 25°C, 150 Gram Mass:	2 Hours
Cure Schedule, 25°C, 50 Gram Mass:	48 Hours
Cure Schedule, 150°F, 50 Gram Mass:	2 Hours
Cure Schedule, Larger Masses, 25°C:	24 Hours
Cure Schedule, Larger Masses, 150°F:	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.