



# FAGERDALA WORLD FOAMS

Fagerdala USA, Inc.

## GECET<sup>®</sup> Expandable Engineering Resins

### PRODUCT REFERENCE GUIDE

GECET expandable engineering resins are high performance foamed polymers offering exceptional impact energy management and other superior physical properties at elevated temperatures. GECET resins may be molded in a wide range of densities that enable GECET parts to be custom tailored for specific applications. All GECET grades are black-pigmented beads with an unexpanded particle size of 0.4 to 1.0 mm.

The following table provides a reference guide for the three GECET resin grades.

| GRADE | MINIMUM<br>RECOMMENDED<br>EXPANDED DENSITY<br>lbs / ft <sup>3</sup> (kg / m <sup>3</sup> ) | MAXIMUM RECOMMENDED END-USE<br>TEMPERATURE<br>°F (°C) | FLAMMABILITY RATING |                    |
|-------|--|---|---------------------|--------------------|
|       |  |   | MVSS-302            | UL-94              |
| F-100 | 2.0 (32)   | 210 (100)   | Pass                | ----               |
| F-200 | 3.5 (56)   | 230 (110)   | Pass                | HBF <sup>1,2</sup> |
| F-300 | 4.5 (72)   | 250 (120)   | Pass                | HBF <sup>3</sup>   |

(CHEMICAL RESISTANCE- See Technical Bulletin 5-4.0)

<sup>1</sup> At a molded density of 4.2 - 5.1 pcf for a minimum thickness of 0.5 inch

<sup>2</sup> At a molded density of 5.4 - 6.6 pcf for a minimum thickness of 0.3 inch

<sup>3</sup> At a molded density of 4.0 - 9.0 pcf for a minimum thickness of 0.3 inch

### APPLICATIONS

GECET Expandable Engineering Resin grades F-100, F-200 and F-300 are high-temperature expandable products applicable for use in the manufacturing of a wide variety of foam parts for energy management, insulation, point-of-display structures and other applications.

To help assure that Fagerdala USA-Mendota products are not misapplied, or used in any manner which may not have been intended or tested, we suggest a review of proposed applications with Fagerdala USA-Mendota personnel to assist in dealing with safety considerations. Your Fagerdala USA-Mendota Sales Representative can arrange for the proper contact with our Technical Staff for such review.

## **SHIPPING AND HANDLING PRECAUTIONS**

Expandable GECET resin contains a flammable blowing agent and is consequently regulated by the United States Department of Transportation as a CLASS 9-MISCELLANEOUS MATERIAL. These products are shipped in regulation UN 2211, 1000 - pound containers. Each container is lined with a hydrocarbon barrier liner to decrease the emissions of volatiles. Please refer to the respective resin's Material Safety Data Sheets (MSDS), copies of which are provided with the first product shipment or upon request.

## **GECET MANUFACTURING LOCATIONS**

Mendota, Illinois

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