

# GECET™ 5501

Expanded Polystyrene  
Fagerdala USA Inc.

Message:

Grade 5501 is a regular grade, black-pigmented expandable polystyrene resin. This resin is specifically formulated for high-density, impact absorption applications such as bicycle helmet liners. Grade 5501 resin is available in an unexpanded particle size range of 0.6 - 1.2 mm, and the typical density range for molded application is 2.5 to 10 pcf.

| General Information      |                         |      |             |
|--------------------------|-------------------------|------|-------------|
| Features                 | Expandable              |      |             |
|                          | High Density            |      |             |
|                          | High Impact Resistance  |      |             |
| Uses                     | Safety Helmets          |      |             |
| Appearance               | Black                   |      |             |
| Forms                    | Pellets                 |      |             |
| Mechanical               | Nominal Value           | Unit | Test Method |
| Flexural Modulus         |                         |      | ASTM C203   |
| -- <sup>1</sup>          | 29.6                    | MPa  |             |
| -- <sup>2</sup>          | 20.0                    | MPa  |             |
| Flexural Strength        |                         |      | ASTM C203   |
| -- <sup>3</sup>          | 1.03                    | MPa  |             |
| -- <sup>4</sup>          | 0.655                   | MPa  |             |
| Compressive Strength     |                         |      | ASTM D1621  |
| 10% Strain <sup>5</sup>  | 0.455                   | MPa  |             |
| 10% Strain <sup>6</sup>  | 0.283                   | MPa  |             |
| 15% Strain <sup>7</sup>  | 0.483                   | MPa  |             |
| 15% Strain <sup>8</sup>  | 0.303                   | MPa  |             |
| 20% Strain <sup>9</sup>  | 0.524                   | MPa  |             |
| 20% Strain <sup>10</sup> | 0.331                   | MPa  |             |
| NOTE                     |                         |      |             |
| 1.                       | 3.5 lbs/ft <sup>3</sup> |      |             |
| 2.                       | 2.5 lbs/ft <sup>3</sup> |      |             |
| 3.                       | 3.5 lbs/ft <sup>3</sup> |      |             |
| 4.                       | 2.5 lbs/ft <sup>3</sup> |      |             |
| 5.                       | 3.5 lbs/ft <sup>3</sup> |      |             |
| 6.                       | 2.5 lbs/ft <sup>3</sup> |      |             |
| 7.                       | 3.5 lbs/ft <sup>3</sup> |      |             |
| 8.                       | 2.5 lbs/ft <sup>3</sup> |      |             |
| 9.                       | 3.5 lbs/ft <sup>3</sup> |      |             |
| 10.                      | 2.5 lbs/ft <sup>3</sup> |      |             |

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

