

# GLS 484-067

## Thermoplastic Elastomer

### Key Characteristics

#### Product Description

Lab-Compound LC 484-067 is a white semi-hard plastomer made of thermoplastic elastomer and polyethylene. LC 484-067 will give adhesion when melt pressed on lackered metal, provided the lacker is a modified grade for polyethylene adhesion.

#### General

|                       |                                          |                               |                 |
|-----------------------|------------------------------------------|-------------------------------|-----------------|
| Material Status       | • Commercial: Active                     |                               |                 |
| Regional Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America   | • North America |
| Features              | • Good Organoleptic Properties           |                               |                 |
| Uses                  | • Consumer Applications<br>• Containers  | • Food Packaging<br>• Gaskets |                 |
| RoHS Compliance       | • RoHS Compliant                         |                               |                 |
| Forms                 | • Pellets                                |                               |                 |
| Processing Method     | • Extrusion                              | • Injection Molding           |                 |

### Technical Properties <sup>1</sup>

| Physical                                                 | Typical Value (English)   | Typical Value (SI)        | Test Method |
|----------------------------------------------------------|---------------------------|---------------------------|-------------|
| Density                                                  | 0.900 g/cm <sup>3</sup>   | 0.900 g/cm <sup>3</sup>   | ISO 1183    |
| Melt Volume-Flow Rate (MVR)<br>(190°C/5.0 kg)            | 40 cm <sup>3</sup> /10min | 40 cm <sup>3</sup> /10min | ISO 1133    |
| Elastomers                                               | Typical Value (English)   | Typical Value (SI)        | Test Method |
| Tensile Stress <sup>2</sup>                              |                           |                           | DIN 53504   |
| Across Flow : Break, 73°F (23°C),<br>0.0787 in (2.00 mm) | 1230 psi                  | 8.50 MPa                  |             |
| Flow : Break, 73°F (23°C), 0.0787 in<br>(2.00 mm)        | 870 psi                   | 6.00 MPa                  |             |
| Tensile Elongation <sup>2</sup>                          |                           |                           | DIN 53504   |
| Across Flow : Break, 73°F (23°C),<br>0.0787 in (2.00 mm) | 1200 %                    | 1200 %                    |             |
| Flow : Break, 73°F (23°C), 0.0787 in<br>(2.00 mm)        | 600 %                     | 600 %                     |             |
| Compression Set (73°F (23°C), 72 hr)                     | 36 %                      | 36 %                      | ISO 815     |
| Hardness                                                 | Typical Value (English)   | Typical Value (SI)        | Test Method |
| Shore Hardness                                           |                           |                           | ISO 48-4    |
| Shore A, 10 sec                                          | 89                        | 89                        |             |
| Shore D, 10 sec                                          | 25                        | 25                        |             |

#### Additional Information

Properties are measured using injection molded plaques.

### Processing Information

| Injection              | Typical Value (English) | Typical Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 356 to 410 °F           | 180 to 210 °C      |
| Extrusion              | Typical Value (English) | Typical Value (SI) |
| Melt Temperature       | 320 to 374 °F           | 160 to 190 °C      |
| Die Temperature        | 356 to 392 °F           | 180 to 200 °C      |

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**Notes**

<sup>1</sup> Typical values are not to be construed as specifications.

<sup>2</sup> 7.9 in/min (200 mm/min)

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