

# Exact™ 9182 Plastomer

## Ethylene Butene Copolymer

### Product Description

Exact 9182 plastomer is an ethylene butene copolymer produced using ExxonMobil Chemical's proprietary metallocene catalyst technology. This resin is compatible with polyolefins like polypropylene (PP), polyethylene (PE) and ethylene-vinyl acetate copolymer resin (EVA).

### Key Features

- EVA foam modification.
- Low density.
- Low crystallinity.
- Free flowing pellets.

### General

|                           |                |
|---------------------------|----------------|
| Availability <sup>1</sup> | ▪ Asia Pacific |
| Revision Date             | ▪ 09/12/2013   |

| Physical                                | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|-----------------------------------------|-------------------------|-------------------------|-------------------|
| Density <sup>2</sup>                    | 0.884 g/cm <sup>3</sup> | 0.884 g/cm <sup>3</sup> | ExxonMobil Method |
| Melt Index <sup>2</sup> (190°C/2.16 kg) | 1.2 g/10 min            | 1.2 g/10 min            | ExxonMobil Method |

| Hardness                     | Typical Value (English) | Typical Value (SI) | Test Based On |
|------------------------------|-------------------------|--------------------|---------------|
| Durometer Hardness (Shore A) | 87                      | 87                 | ASTM D2240    |

| Mechanical                   | Typical Value (English) | Typical Value (SI) | Test Based On |
|------------------------------|-------------------------|--------------------|---------------|
| Flexural Modulus - 1% Secant | 5470 psi                | 37.7 MPa           | ASTM D790     |

| Elastomers                | Typical Value (English) | Typical Value (SI) | Test Based On |
|---------------------------|-------------------------|--------------------|---------------|
| Tensile Stress at 100%    | 721 psi                 | 4.97 MPa           | ASTM D412     |
| Tensile Strength at Break | 1480 psi                | 10.2 MPa           | ASTM D412     |
| Elongation at Break       | 410 %                   | 410 %              | ASTM D412     |

| Thermal                              | Typical Value (English) | Typical Value (SI) | Test Based On     |
|--------------------------------------|-------------------------|--------------------|-------------------|
| Vicat Softening Temperature          | 156 °F                  | 68.9 °C            | ExxonMobil Method |
| Peak Melting Temperature             | 156 °F                  | 69 °C              | ExxonMobil Method |
| Crystallization Peak, T <sub>c</sub> | 125 °F                  | 52 °C              | ExxonMobil Method |
| Glass Transition, T <sub>g</sub>     | -43 °F                  | -42 °C             | ExxonMobil Method |

### Additional Information

All physical properties were measured from specimens cut from injection molded plaques (2 mm thick).

### Legal Statement

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use.

For detailed Product Stewardship information, please contact Customer Service.

### Notes

Typical properties: these are not to be construed as specifications.

<sup>1</sup> Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

<sup>2</sup> Property results are displayed in conventional unit of measure.

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For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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