



## INFUSE™ 9507

### Olefin Block Copolymer

#### Overview

INFUSE™ 9507 Olefin Block Copolymer is a high performance olefin block copolymer that has excellent flow characteristics and performs well in a wide range of general purpose thermoplastic elastomer applications, such as injection molding and profile extrusion.

INFUSE 9507 provides outstanding haptics in over molding applications with polypropylene (PP) and Polyethylene (PE). In addition its lower density can help control resin and production costs, while reducing the weight of end products.

#### Main Characteristics:

- High upper service temperature performance
- Highly flexible with good elastic recovery
- Fast set up times for processability
- General purpose elastomer
- Excellent for compounds and blends
- Talc dusted

#### Complies with

- EU, No 10/2011
- U.S. FDA FCN 424

Consult the regulations for complete details

#### Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

| Physical                                           | Nominal Value (English) | Nominal Value (SI)      | Test Method |
|----------------------------------------------------|-------------------------|-------------------------|-------------|
| Density                                            | 0.866 g/cm <sup>3</sup> | 0.866 g/cm <sup>3</sup> | ASTM D792   |
| Melt Index (190°C/2.16 kg)                         | 5.0 g/10 min            | 5.0 g/10 min            | ASTM D1238  |
| Mechanical                                         | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Tensile Modulus - 100% Secant (Compression Molded) | 216 psi                 | 1.49 MPa                | ASTM D638   |
| Tensile Strength (Break, Compression Molded)       | 419 psi                 | 2.89 MPa                | ASTM D638   |
| Tensile Elongation                                 |                         |                         | ASTM D638   |
| Break, Compression Molded                          | 1200 %                  | 1200 %                  |             |
| Elastomers                                         | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Tensile Strength (Break)                           | 1020 psi                | 7.00 MPa                | ASTM D412   |
| Tensile Elongation (Break)                         | 1900 %                  | 1900 %                  | ASTM D412   |
| Tear Strength                                      | 126 lbf/in              | 22.0 kN/m               | ASTM D624   |
| Compression Set                                    |                         |                         | ASTM D395   |
| 70°F (21°C)                                        | 22 %                    | 22 %                    |             |
| 158°F (70°C)                                       | 70 %                    | 70 %                    |             |
| Hardness                                           | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Durometer Hardness                                 |                         |                         | ASTM D2240  |
| Shore A, Compression Molded                        | 60                      | 60                      |             |
| Thermal                                            | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Melting Temperature (DSC)                          | 246 °F                  | 119 °C                  | Dow Method  |
| TMA <sup>1</sup> (39.4 mil (1.00 mm))              | 171 °F                  | 77 °C                   | Dow Method  |

#### Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

<sup>1</sup> 1N, 5°C/min

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