



## INFUSE™ 9107

### Olefin Block Copolymer

#### Overview

INFUSE™ 9107 Olefin Block Copolymer is a lower density higher performance olefin copolymer that can be widely used in TPE applications where higher service temperature requirements are needed. INFUSE 9107 also provides high filler loading capability and gives good elastic recovery.

#### 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)                         | 1.0 g/10 min            | 1.0 g/10 min            | ASTM D1238  |
| Mechanical                                         | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Tensile Modulus - 100% Secant (Compression Molded) | 234 psi                 | 1.61 MPa                | ASTM D638   |
| Tensile Strength (Break, Compression Molded)       | 739 psi                 | 5.10 MPa                | ASTM D638   |
| Tensile Elongation                                 |                         |                         | ASTM D638   |
| Break, Compression Molded                          | 600 %                   | 600 %                   |             |
| Elastomers                                         | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Tensile Strength (Break)                           | 1600 psi                | 11.0 MPa                | ASTM D412   |
| Tensile Elongation (Break)                         | 1600 %                  | 1600 %                  | ASTM D412   |
| Tear Strength                                      | 154 lbf/in              | 27.0 kN/m               | ASTM D624   |
| Compression Set                                    |                         |                         | ASTM D395   |
| 70°F (21°C)                                        | 16 %                    | 16 %                    |             |
| 158°F (70°C)                                       | 49 %                    | 49 %                    |             |
| 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)                          | 250 °F                  | 121 °C                  | Dow Method  |
| TMA <sup>1</sup> (39.4 mil (1.00 mm))              | 151 °F                  | 66 °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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| U.S. & Canada:       | 1-800-441-4369   |                           | +31-11567-2626 |
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