



INFUSE™ 9817

Olefin Block Copolymer

Overview

INFUSE™ 9817 Olefin Block Copolymer is a high performance olefin block copolymer that offers excellent performance in durable, flexible injection molded industrial and consumer goods. INFUSE 9817 has a higher set up temperature, which allows for faster injection molding cycle times. In addition, its high crystallization temperature and lower density drive to lower production cost by reducing cycle time and reducing part weight.

Main Characteristics:

- High upper service temperature performance
- Highly flexible with good elastic recovery
- General purpose elastomer
- Excellent for compounds and blends
- Reduced part weight
- 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 | 0.877 g/cm ³ | 0.877 g/cm ³ | ASTM D792 |
| Melt Index (190°C/2.16 kg) | 15 g/10 min | 15 g/10 min | ASTM D1238 |
| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Modulus - 100% Secant (Compression Molded) | 335 psi | 2.31 MPa | ASTM D638 |
| Tensile Strength (Break, Compression Molded) | 1020 psi | 7.00 MPa | ASTM D638 |
| Tensile Elongation | | | ASTM D638 |
| Break, Compression Molded | 1500 % | 1500 % | |
| Elastomers | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength (Break) | 1020 psi | 7.00 MPa | ASTM D412 |
| Tensile Elongation (Break) | 1700 % | 1700 % | ASTM D412 |
| Tear Strength | 177 lbf/in | 31.0 kN/m | ASTM D624 |
| Compression Set | | | ASTM D395 |
| 70°F (21°C) | 15 % | 15 % | |
| 158°F (70°C) | 58 % | 58 % | |
| Hardness | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shore A, Compression Molded | 71 | 71 | |
| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Melting Temperature (DSC) | 248 °F | 120 °C | Dow Method |
| TMA ¹ (39.4 mil (1.00 mm)) | 203 °F | 95 °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.

¹ 1N, 5°C/min

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