

INFUSE™ 9530

Olefin Block Copolymer

The Dow Chemical Company

Message:

INFUSE™ 9530 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 9530 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
 - Complies with
 - EU, No 10/2011
 - U.S. FDA FCN 424
- Consult the regulations for complete details.

| General Information | | | |
|--|---------------|-------------------|-------------|
| Agency Ratings | EU No 10/2011 | | |
| | FDA FCN 424 | | |
| Forms | Pellets | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.887 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 5.0 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A, Compression Molded) | 83 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus - 100% Secant (Compression Molded) | 3.82 | MPa | ASTM D638 |
| Tensile Strength (Break, Compression Molded) | 7.37 | MPa | ASTM D638 |
| Tensile Elongation (Break, Compression Molded) | 1000 | % | ASTM D638 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 17.0 | MPa | ASTM D412 |
| Tensile Elongation (Break) | 1300 | % | ASTM D412 |
| Tear Strength | 52.0 | kN/m | ASTM D624 |
| Compression Set | | | ASTM D395 |
| 21°C | 20 | % | |
| 70°C | 45 | % | |
| Thermal | Nominal Value | Unit | Test Method |

| | | | |
|----------------------------|-------------|----|-----------------|
| Melting Temperature (DSC) | 119 | °C | Internal Method |
| TMA ¹ (2.54 cm) | 111 | °C | Internal Method |
| NOTE | | | |
| 1. | 1N, 5°C/min | | |

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