

Exxtra™ Performance Polyolefin HMU405

Polypropylene, Compounded (TPO)

Product Description

A specialty thermoplastic polyolefin resin characterized by high flow, high stiffness low emissions and low odour. Typically used in automotive heating and air conditioning units.

General

| | | | |
|---------------------------|------------------------------|-----------------------------|-----------------------------|
| Availability ¹ | ▪ Africa & Middle East | ▪ Europe | |
| Features | ▪ Good Dimensional Stability | ▪ Low Emissions | ▪ Ultra High Stiffness |
| Uses | ▪ Automotive Applications | ▪ Automotive Interior Parts | ▪ Automotive Under the Hood |
| Appearance | ▪ Black | | |
| Form(s) | ▪ Pellets | | |
| Processing Method | ▪ Injection Molding | | |
| Revision Date | ▪ 10/31/2014 | | |

| Physical | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|------------------------------|-----------------------------|---------------|
| Melt Volume-Flow Rate (MVR) (230°C/2.16 kg) | 0.671 in ³ /10min | 11.0 cm ³ /10min | ISO 1133 |
| Density | 1.23 g/cm ³ | 1.23 g/cm ³ | ISO 1183 |

| Mechanical | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------|-------------------------|--------------------|---------------|
| Tensile Stress at Yield | 4640 psi | 32.0 MPa | ISO 527-2/50 |
| Tensile Strain at Yield | 3.0 % | 3.0 % | ISO 527-2/50 |
| Tensile Strain at Break | 4.0 % | 4.0 % | ISO 527-2/50 |
| Tensile Modulus - Secant | 653000 psi | 4500 MPa | ISO 527-2 |

| Impact | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|---------------------------|-----------------------|---------------|
| Charpy Notched Impact Strength (73°F (23°C)) | 1.2 ft·lb/in ² | 2.5 kJ/m ² | ISO 179 |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|--------------------|---------------|
| Heat Deflection Temperature (1.80 MPa) | 169 °F | 76.0 °C | ISO 75-2/A |
| Heat Deflection Temperature (0.45 MPa) | 266 °F | 130 °C | ISO 75-2/B |

Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

This product is not intended for use in food contact application.

Notes

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

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

