

Product Datasheet



Exxtral™ 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	▪ 11/25/2022		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11 g/10 min	11 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	11 cm ³ /10min	11 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 Modulus - Secant	643000 psi	4430 MPa	ISO 527-1
Flexural Modulus	711000 psi	4900 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Charpy Notched Impact Strength 73°F (23°C), Complete Break	1.1 ft-lb/in ²	2.4 kJ/m ²	ISO 179

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	165 °F	74.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	262 °F	128 °C	ISO 75-2/B

Legal Statement

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

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

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.

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ExxonMobil**Exxtral™ Performance Polyolefin HMU405**
Polypropylene, Compounded (TPO)For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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