

Exxtra™ Performance Polyolefin HMU404

Polypropylene, Compounded (TPO)

Product Description

A specialty thermoplastic polyolefin resin, black colored, characterized by very high stiffness and high heat stabilization. Typically used in automotive heating and air conditioning units.

General

Availability ¹	<ul style="list-style-type: none"> Africa & Middle East Europe
Features	<ul style="list-style-type: none"> Good Dimensional Stability Ultra High Stiffness
Uses	<ul style="list-style-type: none"> Automotive Applications Automotive Interior Parts Automotive Under the Hood
Appearance	<ul style="list-style-type: none"> Black
Form(s)	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding
Revision Date	<ul style="list-style-type: none"> 11/25/2022

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13 g/10 min	13 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	13 cm ³ /10min	13 cm ³ /10min	ISO 1133
Density	1.21 g/cm ³	1.21 g/cm ³	ISO 1183

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	4790 psi	33.0 MPa	ISO 527-2/50
Tensile Strain at Yield	3.1 %	3.1 %	ISO 527-2/50
Tensile Modulus - Secant	544000 psi	3750 MPa	ISO 527-1
Flexural Modulus	583000 psi	4020 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength 73°F (23°C), Complete Break	1.9 ft·lb/in ²	4.0 kJ/m ²	ISO 180/B
Charpy Notched Impact Strength 73°F (23°C), Complete Break	1.3 ft·lb/in ²	2.8 kJ/m ²	ISO 179

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	158 °F	70.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	259 °F	126 °C	ISO 75-2/B

Additional Information

Unless otherwise specified herein: data were prepared pursuant to ExxonMobil's sampling and testing procedures in effect at time of production; and applicable sampling and testing methods are available upon request. Values may result from interpolation or correlation of other data. Sampling and testing methods are subject to change without notice unless otherwise agreed in writing.

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.

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