

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

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		

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 527-2
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

