ExxonMobil

Exxtral™ 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

Features	▪ Good Dimensional Stability	▪ 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)	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 527-2
Flexural Modulus	583000	psi	4020	MPa	ISO 178

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

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