

Exxtral™ Performance Polyolefin HMU301

Polypropylene, Compounded (TPO)

Product Description

A specialty thermoplastic polyolefin resin designed for high heat and discoloration resistance, good surface finish, and detergent resistance for electrical appliances such as washing machines. Contains an anti-static additive.

General

Features	▪ Good Dimensional Stability	▪ Good Surface Finish	▪ Ultra High Stiffness
Uses	▪ Appliance Components	▪ Appliances	▪ Consumer Applications
Appearance	▪ Colors Available		
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)	14 g/10 min	14 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.915 in ³ /10min	15.0 cm ³ /10min	ISO 1133
Density	1.18 g/cm ³	1.18 g/cm ³	ISO 1183

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	4970 psi	34.3 MPa	ISO 527-2/50
Tensile Stress at Break	4350 psi	30.0 MPa	ISO 527-2/50
Tensile Strain at Yield	3.9 %	3.9 %	ISO 527-2/50
Tensile Strain at Break	9.0 %	9.0 %	ISO 527-2/50
Tensile Modulus - Secant	502000 psi	3460 MPa	ISO 527-2
Flexural Modulus - Secant	505000 psi	3480 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Charpy Notched Impact Strength 73°F (23°C), Complete Break	1.3 ft-lb/in ²	2.7 kJ/m ²	ISO 179

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	154 °F	68.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	250 °F	121 °C	ISO 75-2/B

