

Exxtral™ Performance Polyolefin BNT013

Polypropylene, Compounded (TPO)

Product Description

A specialty thermoplastic polyolefin resin designed for injection molded automotive interior applications such as door panels. UV stabilized.

General

Features	▪ Balanced Stiffness/Toughness	▪ Good Colorability	▪ High Impact Resistance
Uses	▪ Automotive Applications	▪ Automotive Door Panel	▪ Automotive Interior Trim
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)	8.9 g/10 min	8.9 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	12 cm³/10min	12 cm³/10min	ISO 1133
Density	0.905 g/cm³	0.905 g/cm³	ISO 1183

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	2490 psi	17.2 MPa	ISO 527-2/50
Tensile Strain at Yield	4.5 %	4.5 %	ISO 527-2/50
Tensile Modulus - Secant (73°F (23°C))	137000 psi	945 MPa	ISO 527-2
Flexural Modulus - Secant	128000 psi	880 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength			
-22°F (-30°C)	4.1 ft-lb/in²	8.6 kJ/m²	ISO 180
73°F (23°C)	26 ft-lb/in²	55 kJ/m²	ISO 180/1A
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C), Complete Break	4.1 ft-lb/in²	8.7 kJ/m²	
73°F (23°C), Partial Break	31 ft-lb/in²	66 kJ/m²	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	117 °F	47.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	167 °F	75.0 °C	ISO 75-2/B

