

Exxtral™ Performance Polyolefin BMU143

Polypropylene, Compounded (TPO)

Product Description

A specialty thermoplastic polyolefin resin characterized by a good stiffness/toughness balance and designed for automotive interior application in which good surface finish, high scratch resistance and good UV resistance are required.

General

Features	- Good Surface Finish - High Impact Resistance	- High Scratch Resistance - Low to No Fogging	- Low to No Odor - Low VOC
Uses	Automotive Instrument Panel	Automotive Interior Parts	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)	13 g/10 min	13 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.946 in ³ /10min	15.5 cm ³ /10min	ISO 1133
Density	1.00 g/cm ³	1.00 g/cm ³	ISO 1183

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	3050 psi	21.0 MPa	ISO 527-2
Tensile Stress at Break	2320 psi	16.0 MPa	ISO 527-2
Tensile Strain at Yield	4.0 %	4.0 %	ISO 527-2
Tensile Strain at Break	30 %	30 %	ISO 527-2
Tensile Modulus - Secant (73°F (23°C))	258000 psi	1780 MPa	ISO 527-2
Flexural Modulus	247000 psi	1700 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C), Complete Break	2.4 ft-lb/in ²	5.0 kJ/m ²	
32°F (0°C), Complete Break	3.8 ft-lb/in ²	8.0 kJ/m ²	
73°F (23°C), Complete Break	7.1 ft-lb/in ²	15 kJ/m ²	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	122 °F	50.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	201 °F	94.0 °C	ISO 75-2/B

