

PRELIMINARY DATA SHEET

Exxtra™ Performance Polyolefin BMU143N

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, non-tacky and good UV resistance are required.

General

| | | |
|---------------------------|-------------------------------|-----------------------------|
| Availability ¹ | ▪ Africa & Middle East | ▪ Europe |
| Features | ▪ Good Surface Finish | ▪ High Scratch Resistance |
| | ▪ High Impact Resistance | ▪ Non-sticky |
| Applications | ▪ Interior General Purpose | |
| Uses | ▪ Automotive Instrument Panel | ▪ Automotive Interior Parts |
| | | ▪ Automotive Interior Trim |
| Appearance | ▪ Colors Available | |
| Form(s) | ▪ Pellets | |
| Processing Method | ▪ Injection Molding | |
| Revision Date | ▪ 07/22/2020 | |

| Physical | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|---------------------------|---------------------------|---------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 12 g/10 min | 12 g/10 min | ISO 1133 |
| Melt Volume-Flow Rate (MVR) | 15 cm ³ /10min | 15 cm ³ /10min | ISO 1133 |
| Density | 1.01 g/cm ³ | 1.01 g/cm ³ | ISO 1183 |

| Mechanical | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|--------------------|---------------|
| Tensile Stress at Yield | 2970 psi | 20.5 MPa | ISO 527-2 |
| Tensile Strain at Yield | 3.6 % | 3.6 % | ISO 527-2 |
| Tensile Modulus - Secant (73°F (23°C)) | 254000 psi | 1750 MPa | ISO 527-1 |
| Flexural Modulus | 267000 psi | 1840 MPa | ISO 178 |

| Impact | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------------|---------------------------|-----------------------|---------------|
| Charpy Notched Impact Strength | | | ISO 179 |
| -4°F (-20°C), Complete Break | 2.6 ft-lb/in ² | 5.5 kJ/m ² | |
| 32°F (0°C), Complete Break | 4.0 ft-lb/in ² | 8.5 kJ/m ² | |
| 73°F (23°C), Partial Break | 7.6 ft-lb/in ² | 16 kJ/m ² | |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|--------------------|---------------|
| Heat Deflection Temperature (1.80 MPa) | 127 °F | 53.0 °C | ISO 75-2/A |
| Heat Deflection Temperature (0.45 MPa) | 203 °F | 95.0 °C | ISO 75-2/B |

Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

This product is not intended for use in food contact application.

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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Product values shown are provisional and may change during the development process. Data contained herein was prepared pursuant to ExxonMobil's sampling and testing procedures in effect at the time the experimental product was produced.

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