

# Exxtra™ Performance Polyolefin BNU013

## Polypropylene, Compounded (TPO)

### Product Description

A specialty thermoplastic polyolefin resin characterized by a good impact resistance, high stiffness, good scratch and good surface finishing designed for automotive interior applications such as door panels.

### General

|                           |  |  |   |
|---------------------------|--|--|---|
| Availability <sup>1</sup> | <ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> </ul>               | <ul style="list-style-type: none"> <li>Europe</li> <li>Latin America</li> </ul>                        |   |
| Features                  | <ul style="list-style-type: none"> <li>Balanced Stiffness/Toughness</li> <li>Good Impact Resistance</li> </ul> | <ul style="list-style-type: none"> <li>Good Processability</li> <li>High Scratch Resistance</li> </ul> | <ul style="list-style-type: none"> <li>High Stiffness</li> <li>Medium Flow</li> </ul> |
| Uses                      | <ul style="list-style-type: none"> <li>Automotive Applications</li> </ul>                                      | <ul style="list-style-type: none"> <li>Automotive Interior Parts</li> </ul>                            | <ul style="list-style-type: none"> <li>Automotive Interior Trim</li> </ul>            |
| Appearance                | <ul style="list-style-type: none"> <li>Natural Color</li> </ul>  |  |   |
| Form(s)                   | <ul style="list-style-type: none"> <li>Pellets</li> </ul>  |  |   |
| Processing Method         | <ul style="list-style-type: none"> <li>Injection Molding</li> </ul>  |  |   |
| Revision Date             | <ul style="list-style-type: none"> <li>11/25/2014</li> </ul>   |  |   |

| Physical                                    | Typical Value (English)     | Typical Value (SI)          | Test Based On |
|---|-----------------------------|-----------------------------|---------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)   | 16 g/10 min                 | 16 g/10 min                 | ISO 1133      |
| Melt Volume-Flow Rate (MVR) (230°C/2.16 kg) | 1.34 in <sup>3</sup> /10min | 22.0 cm <sup>3</sup> /10min | ISO 1133      |
| Density                                     | 0.900 g/cm <sup>3</sup>     | 0.900 g/cm <sup>3</sup>     | ISO 1183      |

| Mechanical                             | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|--------------------|---------------|
| Tensile Stress at Yield                | 2470 psi                | 17.0 MPa           | ISO 527-2     |
| Tensile Stress at Break                | 1890 psi                | 13.0 MPa           | ISO 527-2     |
| Tensile Strain at Yield                | 4.0 %                   | 4.0 %              | ISO 527-2     |
| Tensile Modulus - Secant (73°F (23°C)) | 146000 psi              | 1010 MPa           | ISO 527-2     |
| Flexural Modulus                       | 149000 psi              | 1030 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   | 4.3 ft-lb/in <sup>2</sup> | 9.0 kJ/m <sup>2</sup> |               |
| 32°F (0°C), Complete Break     | 6.2 ft-lb/in <sup>2</sup> | 13 kJ/m <sup>2</sup>  |               |
| 73°F (23°C), Complete Break    | 10 ft-lb/in <sup>2</sup>  | 21 kJ/m <sup>2</sup>  |               |

| Thermal                                | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|--------------------|---------------|
| Heat Deflection Temperature (1.80 MPa) | 113 °F                  | 45.0 °C            | ISO 75-2/A    |
| Heat Deflection Temperature (0.45 MPa) | 156 °F                  | 69.0 °C            | ISO 75-2/B    |

### Legal Statement

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

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

### Notes

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

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

