

# Exxtral™ Performance Polyolefin CNU011

## Polypropylene, Compounded (TPO)

### Product Description

A specialty thermoplastic polyolefin resin designed for injection molded automotive interior applications in which good surface finish and UV resistance is required.

### General

|                   |                                |                             |                            |
|-------------------|--------------------------------|-----------------------------|----------------------------|
| Features          | ▪ Balanced Stiffness/Toughness | ▪ Good Impact Resistance    | ▪ Good Surface Finish      |
| Uses              | ▪ Automotive Applications      | ▪ 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)   | 16 g/10 min             | 16 g/10 min        | ISO 1133      |
| Melt Volume-Flow Rate (MVR) (230°C/2.16 kg) | 21 cm³/10min            | 21 cm³/10min       | ISO 1133      |
| Density                                     | 0.900 g/cm³             | 0.900 g/cm³        | ISO 1183      |

| Mechanical               | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------|-------------------------|--------------------|---------------|
| Tensile Stress at Yield  | 3480 psi                | 24.0 MPa           | ISO 527-2/50  |
| Tensile Strain at Yield  | 5.2 %                   | 5.2 %              | ISO 527-2/50  |
| Tensile Modulus - Secant | 174000 psi              | 1200 MPa           | ISO 527-2     |

| Impact                         | Typical Value (English) | Typical Value (SI) | Test Based On |
|--------------------------------|-------------------------|--------------------|---------------|
| Charpy Notched Impact Strength |                         |                    | ISO 179       |
| 32°F (0°C), Complete Break     | 2.7 ft-lb/in²           | 5.6 kJ/m²          |               |
| 73°F (23°C), Complete Break    | 4.3 ft-lb/in²           | 9.0 kJ/m²          |               |

| 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) | 172 °F                  | 78.0 °C            | ISO 75-2/B    |

