

# Exxtral™ Performance Polyolefin BMU143

Polypropylene, Compounded (TPO)

ExxonMobil Chemical

## Message:

A special thermoplastic polyolefin resin with good rigidity/toughness balance is used for automotive interior parts requiring good surface finish, high scratch resistance and good UV resistance.

| General Information                         |                          |                        |             |
|---------------------------------------------|--------------------------|------------------------|-------------|
| Features                                    | Low to No Fogging        |                        |             |
|                                             | Low VOC                  |                        |             |
|                                             | High scratch resistance  |                        |             |
|                                             | Impact resistance, high  |                        |             |
|                                             | The smell is low to none |                        |             |
|                                             | Excellent appearance     |                        |             |
| Uses                                        | Car interior parts       |                        |             |
|                                             | Car interior equipment   |                        |             |
|                                             | Car dashboard            |                        |             |
| Appearance                                  | Available colors         |                        |             |
| Forms                                       | Particle                 |                        |             |
| Processing Method                           | Injection molding        |                        |             |
| Physical                                    | Nominal Value            | Unit                   | Test Method |
| Density                                     | 1.00                     | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)   | 13                       | g/10 min               | ISO 1133    |
| Melt Volume-Flow Rate (MVR) (230°C/2.16 kg) | 15.5                     | cm <sup>3</sup> /10min | ISO 1133    |
| Mechanical                                  | Nominal Value            | Unit                   | Test Method |
| Tensile Modulus - Secant (23°C)             | 1780                     | MPa                    | ISO 527-2   |
| Tensile Stress                              |                          |                        | ISO 527-2   |
| Yield                                       | 21.0                     | MPa                    | ISO 527-2   |
| Fracture                                    | 16.0                     | MPa                    | ISO 527-2   |
| Tensile Strain                              |                          |                        | ISO 527-2   |
| Yield                                       | 4.0                      | %                      | ISO 527-2   |
| Fracture                                    | 30                       | %                      | ISO 527-2   |
| Flexural Modulus                            | 1700                     | MPa                    | ISO 178     |
| Impact                                      | Nominal Value            | Unit                   | Test Method |
| Charpy Notched Impact Strength              |                          |                        | ISO 179     |
| -30°C, complete fracture                    | 5.0                      | kJ/m <sup>2</sup>      | ISO 179     |
| 0°C, complete fracture                      | 8.0                      | kJ/m <sup>2</sup>      | ISO 179     |

| 23°C, complete fracture     | 15            | kJ/m <sup>2</sup> | ISO 179     |
|-----------------------------|---------------|-------------------|-------------|
| Thermal                     | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature |               |                   |             |
| 0.45 MPa, not annealed      | 94.0          | °C                | ISO 75-2/B  |
| 1.8 MPa, not annealed       | 50.0          | °C                | ISO 75-2/A  |
| Legal statement             |               |                   |             |

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