

# Exxtral™ Performance Polyolefin CMN303

Polypropylene, Compounded (TPO)

ExxonMobil Chemical

## Message:

A special thermoplastic polyolefin resin is used in automotive interior applications (such as instrument panels) that require high thermal aging resistance.

| General Information            |                                 |                        |              |
|--------------------------------|---------------------------------|------------------------|--------------|
| Features                       | Low to No Fogging               |                        |              |
|                                | Good dimensional stability      |                        |              |
|                                | Low volatilization              |                        |              |
|                                | Impact resistance, good         |                        |              |
|                                | Good creep resistance           |                        |              |
|                                | Good demoulding performance     |                        |              |
| Uses                           | Parts under the hood of a car   |                        |              |
|                                | Application in Automobile Field |                        |              |
|                                | Car interior parts              |                        |              |
|                                | Car interior equipment          |                        |              |
| Appearance                     | Black                           |                        |              |
| Forms                          | Particle                        |                        |              |
| Processing Method              | Injection molding               |                        |              |
| Physical                       | Nominal Value                   | Unit                   | Test Method  |
| Density                        | 1.10                            | g/cm <sup>3</sup>      | ISO 1183     |
| Melt Volume-Flow Rate (MVR)    |                                 |                        | ISO 1133     |
| 230°C/2.16 kg                  | 2.90                            | cm <sup>3</sup> /10min | ISO 1133     |
| 230°C/5.0 kg                   | 10.6                            | cm <sup>3</sup> /10min | ISO 1133     |
| Mechanical                     | Nominal Value                   | Unit                   | Test Method  |
| Tensile Modulus - Secant       | 2950                            | MPa                    | ISO 527-2    |
| Tensile Stress                 |                                 |                        | ISO 527-2/50 |
| Yield                          | 26.0                            | MPa                    | ISO 527-2/50 |
| Fracture                       | 15.0                            | MPa                    | ISO 527-2/50 |
| Tensile Strain                 |                                 |                        | ISO 527-2/50 |
| Yield                          | 4.0                             | %                      | ISO 527-2/50 |
| Fracture                       | 35                              | %                      | ISO 527-2/50 |
| Impact                         | Nominal Value                   | Unit                   | Test Method  |
| Charpy Notched Impact Strength |                                 |                        | ISO 179      |
| 0°C, complete fracture         | 4.0                             | kJ/m <sup>2</sup>      | ISO 179      |
| 23°C, complete fracture        | 10                              | kJ/m <sup>2</sup>      | ISO 179      |
| Thermal                        | Nominal Value                   | Unit                   | Test Method  |

|                             |      |    |            |
|-----------------------------|------|----|------------|
| Heat Deflection Temperature |      |    |            |
| 0.45 MPa, not annealed      | 110  | °C | ISO 75-2/B |
| 1.8 MPa, not annealed       | 62.0 | °C | ISO 75-2/A |

#### Legal statement

本产品不宜在医疗应用中使用,亦不应在任何此类应用中使用本产品不宜在与食品接触的应用中使用.

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## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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