

Exxtra™ Performance Polyolefin CMN303

Polypropylene, Compounded (TPO)

Product Description

A specialty thermoplastic polyolefin resin designed for high heat ageing resistance for automotive interior trim applications such as instrument panels.

General

Features	- Good Creep Resistance - Good Dimensional Stability	- Good Impact Resistance - Good Mold Release	- Low Emissions - Low to No Fogging
Uses	- Automotive Applications - Automotive Interior Parts	- Automotive Interior Trim - Automotive Under the Hood	
Appearance	Black		
Form(s)	Pellets		
Processing Method	Injection Molding		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Volume-Flow Rate (MVR)			ISO 1133
230°C/2.16 kg	0.177 in ³ /10min	2.90 cm ³ /10min	
230°C/5.0 kg	0.647 in ³ /10min	10.6 cm ³ /10min	
Density	1.10 g/cm ³	1.10 g/cm ³	ISO 1183

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	3770 psi	26.0 MPa	ISO 527-2/50
Tensile Stress at Break	2180 psi	15.0 MPa	ISO 527-2/50
Tensile Strain at Yield	4.0 %	4.0 %	ISO 527-2/50
Tensile Strain at Break	35 %	35 %	ISO 527-2/50
Tensile Modulus - Secant	428000 psi	2950 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	1.9 ft-lb/in ²	4.0 kJ/m ²	
73°F (23°C), Complete Break	4.8 ft-lb/in ²	10 kJ/m ²	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	144 °F	62.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	230 °F	110 °C	ISO 75-2/B

