

ExxonMobil™ PP2822E2

Polypropylene Homopolymer

Product Description

A medium flow homopolymer resin designed for mono-oriented products like stretched tapes. It is produced with a catalyst system that does not include intentionally-added phthalate compounds.

General

| | | | |
|---------------------------|---|--|--------|
| Availability ¹ | ▪ Asia Pacific | | |
| Features | ▪ Good Gauge Control ▪ Good Processability | ▪ Medium Flow ▪ No Intentionally Added Phthalates | |
| Uses | ▪ Carpet Backing ▪ Fabrics | ▪ Rope ▪ Tape | ▪ Yarn |
| Appearance | ▪ Natural Color | | |
| Form(s) | ▪ Pellets | | |
| Processing Method | ▪ Extrusion | | |
| Revision Date | ▪ 04/26/2018 | | |

| Physical | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|-------------------------|-------------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 4.0 g/10 min | 4.0 g/10 min | ASTM D1238 |
| Density | 0.900 g/cm ³ | 0.900 g/cm ³ | ExxonMobil Method |

| Mechanical | Typical Value (English) | Typical Value (SI) | Test Based On |
|------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield | 5120 psi | 35.3 MPa | ASTM D638 |
| Elongation at Yield | 9.4 % | 9.4 % | ASTM D638 |
| Flexural Modulus - 1% Secant | | | |
| 0.051 in/min (1.3 mm/min) | 234000 psi | 1610 MPa | ASTM D790A |
| 0.51 in/min (13 mm/min) | 269000 psi | 1850 MPa | ASTM D790B |

| Impact | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------------|-------------------------|--------------------|---------------|
| Notched Izod Impact (73°F (23°C)) | 0.70 ft-lb/in | 37 J/m | ASTM D256A |
| Gardner Impact (73°F (23°C)) | 13.0 in-lb | 1.47 J | ASTM D5420 |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|--|-------------------------|--------------------|---------------|
| Deflection Temperature Under Load (DTUL) at 66psi - Unannealed | 197 °F | 91.4 °C | ASTM D648 |

| Hardness | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------|-------------------------|--------------------|---------------|
| Rockwell Hardness | 105 | 105 | ASTM D785 |

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product, including the product name, shall not be used or tested in any medical application without prior written acknowledgement of ExxonMobil Chemical as to the intended use.

Notes

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

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

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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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