

ExxonMobil™ PP2822E1

Polypropylene Homopolymer

Product Description

A medium flow homopolymer resin designed for mono-oriented products like stretched tapes.

General

Features	▪ Good Gauge Control	▪ Good Processability	▪ Medium Flow
Uses	▪ Carpet Backing ▪ Fabrics	▪ Rope ▪ Tape	▪ Yarn
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Extrusion		

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	0.9 g/cm ³	0.9 g/cm ³	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield 2.0 in/min (51 mm/min)	5210 psi	35.9 MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	8.4 %	8.4 %	ASTM D638
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	248000 psi	1710 MPa	ASTM D790A
0.51 in/min (13 mm/min)	285000 psi	1960 MPa	ASTM D790B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	0.45 ft-lb/in	24 J/m	ASTM D256A
Gardner Impact 73°F (23°C), 0.125 in (3.18 mm), Geometry GC	20.0 in-lb	2.26 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	202 °F	94.4 °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 the 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.