

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

