

ExxonMobil™ PP5722E1

Polypropylene Homopolymer

Product Description

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

General

Features	▪ Good Gauge Control ▪ Good Processability	▪ Low Water Carryover ▪ Medium Flow
Uses	▪ 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)	5090 psi	35.1 MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	9.8 %	9.8 %	ASTM D638
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	215000 psi	1480 MPa	ASTM D790A
0.51 in/min (13 mm/min)	246000 psi	1700 MPa	ASTM D790B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	0.74 ft-lb/in	40 J/m	ASTM D256A
Gardner Impact 73°F (23°C), 0.125 in (3.18 mm), Geometry GC	26.9 in-lb	3.04 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	200 °F	93.5 °C	ASTM D648

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	106	106	ASTM D785

