

ExxonMobil™ PP4712E1

Polypropylene Homopolymer

Product Description

An easy-processing homopolymer resin designed primarily for oriented film.

General

Features	▪ Metallizable		
Uses	▪ Industrial Applications	▪ Oriented Film	▪ Tobacco Overwrap Flexible Packaging
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Film Extrusion	▪ Injection Molding	

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.8 g/10 min	2.8 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 2.0 in/min (51 mm/min)	5050 psi	34.8 MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	10 %	10 %	ASTM D638
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	211000 psi	1450 MPa	ASTM D790A
0.51 in/min (13 mm/min)	240000 psi	1660 MPa	ASTM D790B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	0.66 ft-lb/in	35 J/m	ASTM D256A

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	198 °F	92.4 °C	ASTM D648

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	108	108	ASTM D785

