

ExxonMobil™ PP4912E1

Polypropylene Homopolymer

Product Description

A homopolymer resin designed for oriented film or injection molding.

General

Features	▪ Clean/High Purity	▪ Metallizable	
Uses	▪ Cast Film	▪ Oriented Film	▪ Packaging
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Film Extrusion		

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			ASTM D638
2.0 in/min (51 mm/min)	5230 psi	36.1 MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	9.3 %	9.3 %	ASTM D638
Flexural Modulus - 1% Secant			
0.051 in/min (1.3 mm/min)	240000 psi	1660 MPa	ASTM D790A
0.51 in/min (13 mm/min)	276000 psi	1910 MPa	ASTM D790B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact			ASTM D256A
0°F (-18°C)	0.41 ft·lb/in	22 J/m	
73°F (23°C)	0.68 ft·lb/in	36 J/m	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	211 °F	99.4 °C	ASTM D648

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	107	107	ASTM D785

