Product Datasheet

ExxonMobil™ PP4912E1

Polypropylene Homopolymer

Product Description

A homopolymer resin designed for oriented film or injection molding.

General

Availability [1]	▪ Asia Pacific	▪ North America	
Features	▪ Clean/High Purity	▪ Metallizable	
Uses	▪ Cast Film	▪ Oriented Film	▪ Packaging
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Film Extrusion		
Revision Date	▪ 04/01/2019		

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/cm³	0.900	g/cm³	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	ExxonMobil Method

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

Legal Statement

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. For detailed Product Stewardship information, please contact Customer Service.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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.

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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