

Product Datasheet

ExxonMobil™ PP4052E1

Polypropylene Homopolymer



Product Description

An easy-processing, high crystallinity, polypropylene homopolymer resin designed primarily for BOPP (biaxially oriented polypropylene) film applications.

General

Availability ¹	▪ North America		
Uses	▪ Oriented Film	▪ Packaging	▪ Tape
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Film Extrusion		
Revision Date	▪ 06/01/2016		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0 g/10 min	2.0 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)	5230 psi	36.0 MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	8.3 %	8.3 %	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)	283000 psi	1950 MPa	ASTM D790B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	0.80 ft-lb/in	43 J/m	ASTM D256A

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Melting Temperature	325 °F	163 °C	ExxonMobil Method
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	207 °F	97.0 °C	ASTM D648

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.

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

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