Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ PP1304E6

Polypropylene Homopolymer

Product Description

A homopolymer resin designed for injection molding applications requiring excellent flow and good mechanical properties. It is suitable for general purpose applications such as toys, household goods, caps and closures.

General

Availability [1]	▪ Asia Pacific	
Uses	▪ Caps ▪ Closures	▪ Household Goods ▪ Toys
Appearance	▪ Natural Color	
Form(s)	▪ Pellets	
Processing Method	▪ Compounding	▪ Injection Molding
Revision Date	▪ 10/01/2018	

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13	g/10 min	13	g/10 min	ASTM D1238
Density	0.900	g/cm³	0.900	g/cm³	ASTM D1505

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield					ASTM D638
2.0 in/min (51 mm/min)	4900	psi	33.8	MPa	
Tensile Stress at Yield	4630	psi	31.9	MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	9.9	%	9.9	%	ASTM D638
Tensile Strain at Yield	9.9	%	9.9	%	ISO 527-2/50
Tensile Modulus - Chord	212000	psi	1460	MPa	ISO 527-1/1
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	194000	psi	1340	MPa	ASTM D790A
0.51 in/min (13 mm/min)	228000	psi	1570	MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	197000	psi	1360	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	0.51	ft·lb/in	27	J/m	ASTM D256A
Notched Izod Impact Strength (73°F (23°C))	1.6	ft·lb/in²	3.4	kJ/m²	ISO 180/1A
Charpy Notched Impact Strength (73°F (23°C))	1.1	ft·lb/in²	2.3	kJ/m²	ISO 179/1eA
Gardner Impact					ASTM D5420
73°F (23°C), 0.125 in (3.18 mm), Geometry GC	904	in·lb	102	J	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)					ExxonMobil Method
Flatwise	117	°F	47.4	°C	
Heat Deflection Temperature (0.45 MPa)					ExxonMobil Method
Flatwise	170	°F	76.4	°C	
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	192	°F	88.9	°C	ExxonMobil Method
DTUL (66 psi) - Annealed	235	°F	113	°C	ExxonMobil Method

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	105	105	ASTM D785
Shore Hardness (15 sec)	69	69	ISO 868

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

Product Datasheet

ExxonMobil™ PP1304E6
Polypropylene Homopolymer

Legal Statement

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

This product is not intended for use in medical applications and should not be used in any such applications.

For detailed Product Stewardship information, please contact Customer Service

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.

For additional technical, sales and order assistance: Contact Us

©2025 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com