Product Datasheet

ExxonMobil™ PP6272NE1

Polypropylene Homopolymer

Product Description

A nucleated homopolymer resin designed for production of extruded sheet and thermoformed containers. It exhibits excellent processing characteristics even in deep drawn applications.

General

Availability [1]	▪ North America		
Features	▪ Autoclave Sterilizable ▪ Ethylene Oxide Sterilizable ▪ Good Melt Strength	▪ Good Processability ▪ Low Emissions ▪ Steam Sterilizable	▪ Wide Molecular Weight Distribution
Uses	▪ Cups	▪ Packaging	▪ Rigid Packaging
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Extrusion	▪ Sheet Extrusion	▪ Thermoforming
Revision Date	▪ 11/01/2015		

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)	5390	psi	37.2	MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	8.7	%	8.7	%	ASTM D638
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	246000	psi	1700	MPa	ASTM D790A
0.51 in/min (13 mm/min)	286000	psi	1970	MPa	ASTM D790B

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	1.2	ft·lb/in	64	J/m	ASTM D256A

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	230	°F	110	°C	ASTM D648

Optical	Typical Value (English)		Typical Value (SI)		Test Based On
Haze [2]	27.0	%	27.0	%	ASTM D1003

Legal Statement

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

Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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.

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.

[2] Measured on 40 mil (1mm) injection molded plaques.

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

ExxonMobil™ PP6272NE1
Polypropylene Homopolymer

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

©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