Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ PP1105E1

Polypropylene Homopolymer

Product Description

A high melt flow rate homopolymer resin designed for general purpose injection molding.

General

Availability [1]	▪ Europe	▪ North America	
Features	▪ Controlled Rheology ▪ General Purpose	▪ Good Processability ▪ High Flow	▪ Narrow Molecular Weight Distribution
Uses	▪ Automotive Applications ▪ Consumer Applications	▪ Fabrics ▪ Fibers	▪ Nonwovens ▪ Packaging
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Compounding	▪ Injection Blow Molding	
Revision Date	▪ 10/01/2017		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	35	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)	5020	psi	34.6	MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	9.9	%	9.9	%	ASTM D638
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	205000	psi	1410	MPa	ASTM D790A
0.51 in/min (13 mm/min)	240000	psi	1650	MPa	ASTM D790B

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	0.49	ft·lb/in	26	J/m	ASTM D256A

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	202	°F	94.5	°C	ASTM D648

Legal Statement

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

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.

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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