Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ PP5341E1

Polypropylene Homopolymer

Product Description

A low melt flow rate homopolymer resin that provides high melt strength and resistance to softening at elevated temperature.

General

Availability [1]	▪ North America		
Features	▪ Low Flow		
Uses	▪ Automotive Applications	▪ Industrial Applications	
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Blow Molding ▪ Compounding	▪ Injection Molding ▪ Sheet Extrusion	▪ Thermoforming
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)	0.83	g/10 min	0.83	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)	4860	psi	33.5	MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	13	%	13	%	ASTM D638
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	206000	psi	1420	MPa	ASTM D790A
0.51 in/min (13 mm/min)	235000	psi	1620	MPa	ASTM D790B

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact					ASTM D256A
0°F (-18°C)	0.40	ft·lb/in	21	J/m	
73°F (23°C)	0.95	ft·lb/in	51	J/m	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	195	°F	90.5	°C	ASTM D648
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	124	°F	51.0	°C	ASTM D648

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	101	101	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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