Product Datasheet

ExxonMobil Signature Polymers

Exceed™ PP6014MED

Polypropylene Homopolymer

Product Description

Exceed™ PP6014MED is a homo-polymer resin that meets certified requirements for use in Medical and Pharmaceutical applications.

General

Availability [1]	▪ Asia Pacific	▪ North America	
Medical Regulatory	▪ ISO 10993-10 ▪ ISO 10993-11	▪ ISO 10993-4 ▪ ISO 10993-5	▪ USP Class VI
Features	▪ Autoclave Sterilizable ▪ Ethylene Oxide Sterilizable	▪ Low Extractables ▪ Steam Sterilizable	
Uses	▪ Labware	▪ Medical Packaging	▪ Medical/Healthcare Applications [2]
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		
Revision Date	▪ 09/28/2023		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14	g/10 min	14	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)	5010	psi	34.5	MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	9.4	%	9.4	%	ASTM D638
Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))	208000	psi	1430	MPa	ASTM D790A

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	0.44	ft·lb/in	23	J/m	ASTM D256A
Gardner Impact (73°F (23°C))	24.7	in·lb	2.79	J	ASTM D5420

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Peak Melting Temperature	322	°F	161	°C	ExxonMobil Method
Deflection Temperature Under Load (DTUL) at 264psi - Unannealed	131	°F	55.1	°C	ASTM D648B
Vicat Softening Temperature	310	°F	154	°C	ASTM D1525

Optical	Typical Value (English)		Typical Value (SI)		Test Based On
Haze	51.4	%	51.4	%	ASTM D1003

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

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For additional technical, sales and order assistance: Contact Us

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