ExxonMobil Signature Polymers

ExxonMobil™ PP1605MED

Polypropylene Homopolymer

Product Description

ExxonMobil™ PP1605MED is a homopolymer resin based on Exxpol™ metallocene technology designed for medical, electronics and other applications requiring cleanliness. It provides lower, volatiles and extractables and better clarity than conventional homopolymers.

General

Availability [1]	▪ Latin America	▪ North America	
Medical Regulatory	▪ DMF 6676 ▪ ISO 10993-10 ▪ ISO 10993-11	▪ ISO 10993-4 ▪ ISO 10993-5 ▪ USP 661.1	▪ USP Class VI
Features	▪ Autoclave Sterilizable ▪ Ethylene Oxide Sterilizable	▪ Good Organoleptic Properties ▪ Low Emissions	▪ Low Extractables ▪ Steam Sterilizable
Uses	▪ Automotive Applications ▪ Industrial Applications	▪ Labware ▪ Medical Packaging	▪ Medical/Healthcare Applications [2]
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		
Revision Date	▪ 09/01/2022		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	32	g/10 min	32	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)	4830	psi	33.3	MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	9.2	%	9.2	%	ASTM D638
Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))	196000	psi	1350	MPa	ASTM D790A

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
Peak Melting Temperature	302	°F	150	°C	ExxonMobil Method
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	200	°F	93.3	°C	ASTM D648

Legal Statement

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.

[2] 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.

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

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