ExxonMobil Signature Polymers

ExxonMobil™ PP1014H1

Polypropylene Homopolymer

Product Description

ExxonMobil™ PP1014H1 is a homopolymer resin that meets certified requirements for use in Medical and Pharamceutical applications.

General

Availability [1]	▪ Europe	▪ North America	
Medical Regulatory	▪ DMF 15657 ▪ EP Monograph 3.1.3 ▪ EP Monograph 3.1.6	▪ EP Monograph 3.2.2 ▪ ISO 10993-10 ▪ ISO 10993-11	▪ ISO 10993-5 ▪ USP 661.1 ▪ 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	▪ 11/25/2022		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16	g/10 min	16	g/10 min	ISO 1133
Density	0.900	g/cm³	0.900	g/cm³	ExxonMobil Method

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Stress at Yield	4770	psi	32.9	MPa	ISO 527-2/50
Tensile Strain at Yield	8.7	%	8.7	%	ISO 527-2/50
Tensile Modulus	216000	psi	1490	MPa	ISO 527-1/1
Flexural Modulus	208000	psi	1440	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact Strength (73°F (23°C))	1.2	ft·lb/in²	2.6	kJ/m²	ISO 180/1A
Charpy Notched Impact Strength (73°F (23°C))	1.3	ft·lb/in²	2.8	kJ/m²	ISO 179/1eA

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Melting Temperature	318	°F	159	°C	ISO 11357-3
Peak Crystallization Temperature	239	°F	115	°C	ISO 11357-3
Heat Deflection Temperature (1.80 MPa)	125	°F	51.4	°C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	180	°F	82.0	°C	ISO 75-2/B
Vicat Softening Temperature	307	°F	153	°C	ISO 306/A50

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness (Shore D)	65	65	ISO 868

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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