Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ PP1074KNE1

Polypropylene Homopolymer

Product Description

A nucleated, medium melt flow rate homopolymer resin with mold release and anti-static properties. It is suitable for general purpose injection molding.

General

Availability [1]	▪ Europe	▪ North America	
Features	▪ Autoclave Sterilizable ▪ Creep Resistant	▪ Ethylene Oxide Sterilizable ▪ Good Mold Release	▪ Good Stiffness ▪ Steam Sterilizable
Uses	▪ Bottles ▪ Caps	▪ Closures ▪ Consumer Applications	▪ Packaging
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection 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)	20	g/10 min	20	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)	5550	psi	38.3	MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	8.1	%	8.1	%	ASTM D638
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	262000	psi	1810	MPa	ASTM D790A
0.51 in/min (13 mm/min)	298000	psi	2050	MPa	ASTM D790B

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact					ASTM D256A
-4°F (-20°C)	0.36	ft·lb/in	19	J/m	
73°F (23°C)	0.59	ft·lb/in	31	J/m	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	248	°F	120	°C	ASTM D648

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	109	109	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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Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene