

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/cm ³	0.900 g/cm ³	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield 2.0 in/min (51 mm/min)	5550 psi	38.3 MPa	ASTM D638
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 -4°F (-20°C)	0.36 ft·lb/in	19 J/m	ASTM D256A
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.

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

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