

# 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 <sup>1</sup>	<ul style="list-style-type: none"> <li>Europe</li> <li>North America</li> </ul>
Features	<ul style="list-style-type: none"> <li>Autoclave Sterilizable</li> <li>Creep Resistant</li> <li>Ethylene Oxide Sterilizable</li> <li>Good Mold Release</li> <li>Good Stiffness</li> <li>Steam Sterilizable</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Bottles</li> <li>Caps</li> <li>Closures</li> <li>Consumer Applications</li> <li>Packaging</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Natural Color</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>10/01/2017</li> </ul>

### 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 <sup>3</sup>	0.900 g/cm <sup>3</sup>	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.

<sup>1</sup> 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](http://www.exxonmobilchemical.com/ContactUs)

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