ExxonMobil

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]	▪ North America		
Features	▪ Autoclave Sterilizable ▪ Ethylene Oxide Sterilizable	▪ Good Creep Resistance ▪ 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	▪ 12/01/2013		

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	0.9	g/cm³	0.9	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)	5590	psi	38.5	MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	7.7	%	7.7	%	ASTM D638
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	271000	psi	1870	MPa	ASTM D790A
0.51 in/min (13 mm/min)	310000	psi	2140	MPa	ASTM D790B

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	0.52	ft·lb/in	28	J/m	ASTM D256A

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	243	°F	117	°C	ASTM D648

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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.

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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