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

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		

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