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**
  - 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
- **Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)**
  - Typical Value (English): 20 g/10 min
  - Typical Value (SI): 20 g/10 min
  - Test Based On: ASTM D1238
- **Density**
  - Typical Value (English): 0.900 g/cm³
  - Typical Value (SI): 0.900 g/cm³
  - Test Based On: ExxonMobil Method

Mechanical
- **Tensile Strength at Yield**
  - 2.0 in/min (51 mm/min)
    - Typical Value (English): 5550 psi
    - Typical Value (SI): 38.3 MPa
    - Test Based On: ASTM D638
- **Elongation at Yield (2.0 in/min (51 mm/min))**
  - Typical Value (English): 8.1%
  - Typical Value (SI): 8.1%
  - Test Based On: ASTM D638
- **Flexural Modulus - 1% Secant**
  - 0.051 in/min (1.3 mm/min)
    - Typical Value (English): 26200 psi
    - Typical Value (SI): 1810 MPa
    - Test Based On: ASTM D790A
  - 0.51 in/min (13 mm/min)
    - Typical Value (English): 29800 psi
    - Typical Value (SI): 2050 MPa
    - Test Based On: ASTM D790B

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

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

Hardness
- **Rockwell Hardness**
  - Typical Value (English): 109
  - Typical Value (SI): 109
  - Test Based On: 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.
- Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.