ExxonMobil™ PP1013H1
Polypropylene Homopolymer

Product Description
ExxonMobil™ PP1013H1 is a homopolymer resin that meets certified requirements for use in Medical and Pharmaceutical applications.

General
Availability
- Europe
- North America
Medical Regulatory
- DMF 15657
- EP Monograph 3.1.3
- EP Monograph 3.1.6
- ISO 10993-10
- ISO 10993-11
- ISO 10993-5
- ISO 10993-11
- USP 661.1
- USP Class VI
Features
- Autoclave Sterilizable
- Ethylene Oxide Sterilizable
- Low Extractables
- Steam Sterilizable
Uses
- Labware
- Medical Packaging
- Medical/Healthcare Applications
Appearance
- Natural Color
Form(s)
- Pellets
Processing Method
- Injection Molding
Revision Date
- 11/25/2022

Physical
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)
- Typical Value (English): 7.5 g/10 min
- Typical Value (SI): 7.5 g/10 min
- Test Based On: ISO 1133
Density
- Typical Value (English): 0.900 g/cm³
- Typical Value (SI): 0.900 g/cm³
- Test Based On: ExxonMobil Method

Mechanical
Tensile Stress at Yield
- Typical Value (English): 4860 psi
- Typical Value (SI): 33.5 MPa
- Test Based On: ISO 527-2/50
Tensile Strain at Yield
- Typical Value (English): 8.8 %
- Typical Value (SI): 8.8 %
- Test Based On: ISO 527-2/50
Tensile Modulus
- Typical Value (English): 21700 psi
- Typical Value (SI): 1500 MPa
- Test Based On: ISO 527-1/1
Flexural Modulus
- Typical Value (English): 215000 psi
- Typical Value (SI): 1480 MPa
- Test Based On: ISO 178

Impact
Notched Izod Impact Strength (73°F (23°C))
- Typical Value (English): 1.5 ft·lb/in²
- Typical Value (SI): 3.1 kJ/m²
- Test Based On: ISO 180/1A
Charpy Notched Impact Strength (73°F (23°C))
- Typical Value (English): 1.7 ft·lb/in²
- Typical Value (SI): 3.6 kJ/m²
- Test Based On: ISO 179/1eA

Thermal
Melting Temperature
- Typical Value (English): 320 °F
- Typical Value (SI): 160 °C
- Test Based On: ISO 11357-3
Peak Crystallization Temperature
- Typical Value (English): 234 °F
- Typical Value (SI): 112 °C
- Test Based On: ISO 11357-3
Heat Deflection Temperature (1.80 MPa)
- Typical Value (English): 123 °F
- Typical Value (SI): 50.3 °C
- Test Based On: ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)
- Typical Value (English): 187 °F
- Typical Value (SI): 86.3 °C
- Test Based On: ISO 75-2/B
Vicat Softening Temperature
- Typical Value (English): 309 °F
- Typical Value (SI): 154 °C
- Test Based On: ISO 306/A50

Hardness
Shore Hardness (Shore D)
- Typical Value (English): 65
- Typical Value (SI): 65
- Test Based On: ISO 868

Legal Statement
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.

2 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.