ExxonMobil Signature Polymers

# 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 [1] | ▪ Asia Pacific | ▪ Europe | ▪ North America |
| Medical Regulatory | ▪ DMF 15657<br>▪ EP Monograph 3.1.3<br>▪ EP Monograph 3.1.6 | ▪ EP Monograph 3.2.2<br>▪ ISO 10993-10<br>▪ ISO 10993-11 | ▪ ISO 10993-5<br>▪ USP 661.1<br>▪ USP Class VI |
| Features | ▪ Autoclave Sterilizable<br>▪ Ethylene Oxide Sterilizable | ▪ Low Extractables<br>▪ Steam Sterilizable | |
| Uses | ▪ Labware | ▪ Medical Packaging | ▪ Medical/Healthcare Applications [2] |
| Appearance | ▪ Natural Color | | |
| Form(s) | ▪ Pellets | | |
| Processing Method | ▪ Injection Molding | | |
| Revision Date | ▪ 03/24/2026 | | |

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

| Mechanical | Typical Value (English) | | Typical Value (SI) | | Test Based On |
|---|---|---|---|---|---|
| Tensile Stress at Yield | 4860 | psi | 33.5 | MPa | ISO 527-2/50 |
| Tensile Strain at Yield | 8.8 | % | 8.8 | % | ISO 527-2/50 |
| Tensile Modulus | 217000 | psi | 1500 | MPa | ISO 527-1/1 |
| Flexural Modulus | 215000 | psi | 1480 | MPa | ISO 178 |

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

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

| Hardness | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|---|---|---|
| Shore Hardness (Shore D) | 65 | 65 | 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.

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For additional technical, sales and order assistance: Contact Us



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