# Polypropylene M3766

Technical Data Sheet
Polypropylene – Homopolymer
Produced in the United States

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

## Description

**Polypropylene M3766** is an isotactic form of homopolymer polypropylene.

**Applications:** M3766 is recommended for applications that require exceptional organoleptics, low extractables, and good clarity. Potential applications include labware, medical packaging, food packaging and personal care, however, due to its unique and interesting properties, other applications may exist.

**Processing:** The unique molecular structure of M3766 lends itself to predictable shrinkage and great dimensional stability when compared to conventional polypropylene.

## Characteristics

| | Method | Unit | Typical Value |
|---|---|---|---|
| **Rheological Properties** | | | |
| Melt Flow | D-1238 | g/10 min | 24 |
| **Mechanical Properties** | | | |
| Tensile Strength @ Yield | D-638 | psi (MPa) | 5,000 (34) |
| Tensile Elongation @ Yield | D-638 | % | 7 |
| Flexural Modulus | D-790 | psi (MPa) | 200,000 (1,380) |
| Izod Impact Notched @ 73˚F | D-256 | ft-lb/in (J/m) | 0.4 (21) |
| **Thermal Properties(1)** | | | |
| Melting Point | DSC(2) | °F (°C) | 304 (151) |
| Heat Deflection Temperature | D-648 | °F (°C) | 186 (86) |
| **Other Physical Properties** | | | |
| Density | D-1505 | g/cc | 0.9 |

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
(2) MP determined with a DSC-2 Differential Scanning Calorimeter. Test procedure available upon request.

Rev: Feb 2026

Polypropylene

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All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TotalEnergies products must be guided by the users own methods for selection of proper formulation. TotalEnergies Petrochemicals & Refining USA Inc. disclaims any responsibility for misuse or misapplication of its products. TotalEnergies MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TotalEnergies' liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.