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TotalEnergies

# Polypropylene 3762

Technical Data Sheet
Polypropylene – Homopolymer
Produced in the United States

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

## Description

**Polypropylene 3762** is formulated to resist gas fading while maintaining excellent processing stability up to 250°C.

**Process Stability:** 3762 features excellent processability and the good physical properties necessary for fibers and multifilament.

**FDA:** 3762 complies with all applicable FDA regulations for food contact.

**Applications:** 3762 is recommended for staple fibers and bulk continuous filament (BCF) yarns.

**Processing:** 3762 resin processes on conventional extrusion equipment with typical melt temperatures of 400°F-480°F (204°C-250°C).

## Characteristics

| | Method | Unit | Typical Value |
|---|---|---|---|
| **Rheological Properties** | | | |
| Melt Flow | D-1238 Condition "L" | g/10 min | 18 |
| **Mechanical Properties** | | | |
| Tensile Modulus | D-638 | psi (MPa) | 240,000 (1,655) |
| Flexural Modulus | D-790 | psi (MPa) | 220,000 (1,515) |
| Flexural Stiffness | D-790 | psi (MPa) | 175,000 (1,205) |
| **Thermal Properties**[1][2] | | | |
| Melting Point | DSC | °F (°C) | 330 (165) |
| Heat Deflection | D-648 | °F @ 66 psi | 240 (115) |
| Softening Point | | °F (°C) | 300-310 (150-155) |
| **Fiber Properties,1.5 dpf Multifilament**[1][3] | | | |
| Elongation | D-3218 | % | 65 |
| Tenacity | D-3218 | g/denier | 3.2 |
| **Other Physical Properties** | | | |
| Density | D-1505 | g/cc | 0.905 |

(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.
(3) Samples processed at 450°F (232·C) extrusion temperature with 3:1 draw ratio.

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