TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 3762

Technical Data Sheet
Polypropylene – Homopolymer
Produced in the United States

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)
Thermal Properties(1)			
Melting Point	DSC(2)	°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.

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.