


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)
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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TOTALENERGIES PETROCHEMICALS & REFINING USA, INC.
POLYMERS AMERICAS
1201 Louisiana Street
Suite 1800
Houston, TX 77002
www.polymers.totalenergies.com

TECHNICAL CENTER
P.O. Box 1200
Deer Park, Texas 77536
Phone: 281-884-7500

1-800-344-3462

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