TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 3462

Technical Data Sheet
Polypropylene – Homopolymer
Produced in the United States

Description

Polypropylene 3462 is formulated to give low water carryover and excellent process stability in extrusion applications.

FDA: 3462 complies with all applicable FDA regulations for food contact applications.

Recommended Applications: 3462 is recommended for slit film, monofilament, and fibrillated tape applications requiring improved process stability.

Processing: 3462 processes on conventional extrusion equipment with typical melt temperatures of 400˚F-500˚F (204˚C-260˚C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238 Condition "L"	g/10 min	4.1
Mechanical Properties			
Tensile @ Yield	D-638	psi (MPa)	5,000 (35)
Elongation	D-638	%	12
Tensile Modulus	D-638	psi (MPa)	220,000 (1,515)
Flexural Modulus	D-790	psi (MPa)	200,000 (1,380)
Izod Impact @ 73˚F Notched Unnotched	D-256A	ft.-lbs/in. (J/m)	 0.6 (32) 17.0 (907)
Thermal Properties(1)(2)			
Melting Point	DSC	˚F (˚C)	330 (165)
Heat Deflection	D-648	˚F @ 66 psi ˚C @ 4.64 kg/cm^2	225 107
Other Physical Properties			
Density	D-1505	g/cc	0.905
Fiber Properties (1)(3)			
Tenacity		g/denier	5.8
Elongation		%	28

(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 6:1 draw ratio and 450 degrees F (232 degrees C) melt temperature.

Rev: Sept 2021

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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.

Polypropylene