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Polypropylene 3462

Technical Data Sheet
Polypropylene – Homopolymer
Produced in the United States

TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

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.

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