



**TotalEnergies**

TotalEnergies Petrochemicals & Refining USA, Inc.  
Polymers Americas

# Polypropylene 3620WZ

Technical Data Sheet  
Polypropylene – Homopolymer  
Produced in the United States

## Description

**Polypropylene 3620WZ** is engineered with nucleation to provide fast cycle time and improve contact clarity in thin wall multi-cavity molds.

**Antistat:** 3620WZ contains an antistat that will help protect molded parts from dust accumulation.

**Regulatory:** 3620WZ has passed USP Class VI testing, an all ingredients meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada). TOTAL Polypropylene 3620WZ complies with all applicable FDA regulations for food contact applications.

**Recommended Applications:** 3620WZ is particularly well suited for caps, closures, medical syringes and thin wall containers.

**Processing** 3620WZ resin processes on conventional injection molding equipment with typical melt temperatures of 390°F-450°F (200°C-232°C)

## Characteristics

	Method	Unit	Typical Value
<b>Rheological Properties</b>			
Melt Flow	D-1238 Condition "L"	g/10 min	12
<b>Mechanical Properties</b>			
Tensile	D-638	psi (MPa)	5,400 (37)
Elongation	D-638	%	10
Tensile Modulus	D-638	psi (MPa)	250,000 (1,725)
Flexural Modulus	D-790	psi (MPa)	230,000 (1,585)
Izod Impact @ 73°F			
Notched	D-256A	ft.-lbs/in. (J/m)	0.5 (27)
Unnotched			16.0 (854)
Hardness	D-785A	Rockwell R	107
<b>Thermal Properties<sup>(1)(2)</sup></b>			
Melting Point	DSC	°F (°C)	330 (165)
Heat Deflection	D-648	°F @ 66 psi	260
		°C @ 4.64 kg/cm <sup>2</sup>	127
<b>Other Physical Properties</b>			
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.

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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