



**TotalEnergies**

TotalEnergies Petrochemicals & Refining USA, Inc.  
Polymers Americas

## Polypropylene 4524WZ

Technical Data Sheet  
Polypropylene – Impact Copolymer  
Produced in the United States

### Description

**Polypropylene 4524WZ** is a nucleated high impact copolymer with a Melt Flow of 7 g/10min

4524WZ is characterized by significantly improved impact resistance, while maintaining excellent antistatic properties and good processability.

4524WZ has been developed specifically for the injection molding of baskets, pails, toys and any articles requiring extra toughness.

### Characteristics

	Method	Unit	Typical Value
<b>Rheological Properties</b>			
Melt Flow	D-1238	g/10 min	7
<b>Mechanical Properties</b>			
Tensile, Strength at Yield	D-638	psi (MPa)	3,800 (26)
Elongation at Yield	D-638	%	7
Flexural Modulus	D-790	psi (MPa)	170,000 (1,170)
Izod Impact (Notched) @ 23°C	ASTM D-256	ft.-lbs/in. (J/m)	3.5 (187)
@ -20°C	ASTM D-256	ft.-lbs/in. (J/m)	1.4 (75)
<b>Thermal Properties<sup>(1)</sup></b>			
Melting Range	TOTAL Method	°F (°C)	320-329 (160-165)
Heat Deflection Temperature	D-648	°F (°C)	194 (90)
Vicat Softening Point	D-1525	°F (°C)	298 (148)
<b>Other Physical Properties</b>			
Density	D-1505	g/cm <sup>3</sup>	0.905

Polypropylene

(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

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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.