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# Polypropylene 3927WZ

Technical Data Sheet  
Polypropylene – Homopolymer  
Produced in the United States

## Description

**Polypropylene 3927WZ** is nucleated to provide fast cycle time and improve contact clarity.

**Antistat:** 3927WZ contains an antistat that will help protect molded parts from shelf dusting.

**FDA:** 3927WZ complies with all applicable FDA regulations for food contact applications.

**Applications:** 3927WZ is recommended for thin wall parts, caps and closures in multi-cavity molds.

**Processing:** 3927WZ 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	g/10 min	60
<b>Mechanical Properties</b>			
Tensile	D-638	psi (MPa)	5,500 (38)
Elongation	D-638	%	10
Tensile Modulus	D-638	psi (MPa)	285,000 (1,965)
Flexural Modulus	D-790	psi (MPa)	270,000 (1,860)
Izod Impact @ 73°F			
Notched	D-256A	ft.-lbs/in. (J/m)	0.4 (21)
Unnotched			16.0 (854)
<b>Hardness</b>			
Rockwell R	D-785A		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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