



TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

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
Rheological Properties			
Melt Flow	D-1238	g/10 min	60
Mechanical Properties			
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	D-256A	ft.-lbs/in. (J/m)	0.4 (21)
Notched			16.0 (854)
Unnotched			
Hardness			
Rockwell R	D-785A		107
Thermal Properties⁽¹⁾⁽²⁾			
Melting Point	DSC	°F (°C)	330 (165)
Heat Deflection	D-648	°F @ 66 psi °C @ 4.64 kg/cm ²	260 127
Other Physical Properties			
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.

Rev: Sept 2021

TOTALENERGIES PETROCHEMICALS & REFINING USA, INC.
POLYMERS AMERICAS
1201 Louisiana Street
Suite 1800
Houston, TX 77002
www.polymers.totalenergies.com

TECHNICAL CENTER
P.O. Box 1200
Deer Park, Texas 77536
Phone: 281-884-7500

1-800-344-3462

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

