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 Strength @ Yield	D-638	psi (MPa)	5,500 (38)
Tensile Elongation @ Yield	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 Unnotched	D-256A	ft-lb/in (J/m)	 0.4 (21) 16.0 (854)
Hardness			
Rockwell R	D-785A		107
Thermal Properties(1)			
Melting Point	DSC(2)	°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.

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