TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 3720WZ

Technical Data Sheet
Polypropylene – Homopolymer
Produced in the United States

Description

Polypropylene 3720WZ has high flow characteristics that result in ease of filling thin wall parts.

Nucleation: Polypropylene 3720WZ is nucleated to provide fast cycle time and improved contact clarity in thin wall, multi-cavity molds.

Antistat: Polypropylene 3720WZ contains an antistat that will help protect molded parts from dust accumulation.

FDA: Polypropylene 3720WZ complies with all applicable FDA regulations for food contact applications.

Recommended Applications: Polypropylene 3720WZ is recommended for caps, closures, and thin wall containers.

Processing: Polypropylene 3720WZ resin processes on conventional injection molding equipment with typical melt temperatures of 380°F-450°F (200°C-232°C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238 Condition "L"	g/10 min	20
Mechanical Properties			
Tensile Strength @ Yield	D-638	psi (MPa)	5,500 (38)
Tensile Elongation @ Yield	D-638	%	13
Tensile Modulus	D-638	psi (MPa)	260,000 (1,795)
Flexural Modulus	D-790	psi (MPa)	220,000 (1,515)
Izod Impact @ 73˚F Notched Unnotched	D-256A	ft-lb/in (J/m)	 0.5 (27) 20.0 (1,068)
Hardness	D-785A	Rockwell R	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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Polypropylene