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TOTAL
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Polypropylene 3720WZ

Technical Data Sheet
Homopolymer – High Flow Reactor-Injection Molding

Produced in the United States

Description

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

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

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

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

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

Processing: TOTAL Polypropylene 3720WZ resin processes on conventional injection molding equipment with typical melt temperatures of 380-450^{0}F (200-232^{0}C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238 Condition "L"	g/10 min	20
Mechanical Properties			
Tensile	D-638	psi (MPa)	5,500 (37.9)
Elongation	D-638	%	13
Tensile Modulus	D-638	psi (MPa)	260,000 (1,790)
Flexural Modulus	D-790	psi (MPa)	220,000 (1,520)
Izod Impact @ 73^{o}F Notched Unnotched	D-256A	ft.-lbs/in. (J/m)	 0.5 (26.7) 20.0 (1,065)
Hardness	D-785A	Rockwell R	107
Thermal Properties(1)			
Melting Point	DSC(2)	^{o}F (^{o}C)	330 (165)
Heat Deflection	D-648	^{o}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.