TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 3620WZ

Technical Data Sheet
Polypropylene – Homopolymer
Produced in the United States

Description

Polypropylene 3620WZ is engineered with nucleation to provide fast cycle time and improve contact clarity in thin wall multi-cavity molds.

Antistat: 3620WZ contains an antistat that will help protect molded parts from dust accumulation.

Regulatory: 3620WZ has passed USP Class VI testing, an all ingredients meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada). Polypropylene 3620WZ complies with all applicable FDA regulations for food contact applications.

Recommended Applications: 3620WZ is particularly well suited for caps, closures, medical syringes and thin wall containers.

Processing 3620WZ resin 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 Condition "L"	g/10 min	12
Mechanical Properties			
Tensile Strength @ Yield	D-638	psi (MPa)	5,400 (37)
Tensile Elongation @ Yield	D-638	%	10
Tensile Modulus	D-638	psi (MPa)	250,000 (1,725)
Flexural Modulus	D-790	psi (MPa)	230,000 (1,585)
Izod Impact @ 73°F Notched Unnotched	D-256A	ft-lb/in (J/m)	 0.5 (27) 16.0 (854)
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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