


TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Lumicene® Polypropylene M3721WZ

Technical Data Sheet
Metallocene Polypropylene – Homopolymer
Produced in the United States

Description

Polypropylene M3721WZ is designed with high flow characteristics for ease of filling thin wall parts.

Antistat: M3721WZ is engineered with a high level of antistat for shelf cleanliness and mold release.

FDA: M3721WZ complies with all applicable FDA regulations for food contact applications.

Nucleation: M3721WZ is nucleated to provide fast cycle time and improve contact clarity in thin wall, multi-cavity molds.

Applications: M3721WZ is ideal for caps, closures, cutlery, and other thin wall multi-cavity applications.

Processing: M3721WZ processes on conventional injection molding equipment with typical melt temperatures of 390° - 450°F (200°C-232°C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	24
Mechanical Properties			
Tensile	D-638	psi (MPa)	5,500 (40)
Elongation	D-638	%	14
Tensile Modulus	D-638	psi (MPa)	270,000 (1,860)
Flexural Modulus	D-790	psi (MPa)	250,000 (1,725)
Izod Impact @ 73°F			
Notched	D-256A	ft.-lbs/in. (J/m)	0.5 (27)
Unnotched	D-256A	ft.-lbs/in. (J/m)	20.0 (1,068)
Thermal Properties⁽¹⁾⁽²⁾			
Melting Point	DSC	°F (°C)	311 (155)
Heat Deflection			
@ 66 psi	D-648	°F	240
@ 4.64 kg/cm ²	D-648	°C	116
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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