



TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 3721WZ

Technical Data Sheet
Polypropylene – Homopolymer
Produced in the United States

Description

Polypropylene 3721WZ is designed with high flow characteristics for ease of filling thin wall parts.

Antistat: 3721WZ is engineered with a high level of antistat for shelf cleanliness and mold release.

FDA: 3721WZ complies with all applicable FDA regulations for food contact applications.

Nucleation: 3721WZ is nucleated to provide fast cycle time and improve contact clarity in thin wall, multi-cavity molds.

Applications: 3721WZ is ideal for caps, closures, cutlery, and other thin wall multi-cavity applications.

Processing: 3721WZ 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 | 20 |
| Mechanical Properties | | | |
| Tensile | D-638 | psi (MPa) | 5,500 (38) |
| Elongation | D-638 | % | 12 |
| Tensile Modulus | D-638 | psi (MPa) | 260,000 (1,795) |
| Flexural Modulus | D-790 | psi (MPa) | 270,000 (1,860) |
| Izod Impact @ 73°F | | | |
| Notched | D-256A | ft.-lbs/in. (J/m) | 0.5 (27) |
| Unnotched | | | 20.0 (1,068) |
| Hardness | D-785A | Rockwell R | 107 |
| Thermal Properties⁽¹⁾⁽²⁾ | | | |
| Melting Point | DSC | °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

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