

TechResin® 5706N

Impact Copolymer for Compression and Injection Molded Caps and Closures

TechResin® 5706N is a medium impact copolymer polypropylene formulated for compression and injection molded cap applications. It was created specifically to meet the demands of beverage closures including those containing carbonation. 5706N offers advantages in both processing and physical properties over traditional polypropylene grades. Of interest is good resistance to blushing caused typically through secondary process operations or supply chain handling.

TechResin® 5706N meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles and components of articles intended for direct food contact.

This material is free of animal-derived content.

Typical Properties of this Commercial Grade

Property	Test Method	Typical Values	
		English	SI
Melt Flow Rate, I ₂ @ 230°C	ASTM D1238	6 g/10 min	6 g/10 min
Density	ASTM D1505	0.9 g/cm ³	0.9 g/cm ³
Tensile Strength at Yield (50 mm/min)	ASTM D638	4,350 psi	30 MPa
Elongation at Yield (50 mm/min)	ASTM D638	9 %	9 %
Flexural Modulus (1.3 mm/min), 1% Secant	ASTM D790	200,000 psi	1379 MPa
Notched Izod Impact Strength @ 73°F	ASTM D256A	5.0 ft-lb/in	267 J/m
Notched Izod Impact Strength @ 32°F	ASTM D256A	1.0 ft-lb/in	53 J/m
Rockwell Hardness	ASTM D785	95 R Scale	95 R Scale
Heat Deflection Temperature @ 66 psi	ASTM D648	239 °F	115 °C

Note: Specimens were injection molded according to the conditions specified in ASTM D4101.

Data for representative purposes only; not to be construed as product specification.

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