

TechResin[®] 5776N

Impact Copolymer for High Speed injection Molded Applications

TechResin[®] 5776N is a very high melt flow, high impact copolymer polypropylene. It is designed for injection applications in rigid packaging, industrial, consumer and transportation requiring good impact strength especially in cold temperatures. It is characterized by easy mold flow, excellent physical property balance and finished product dimensional stability.

TechResin[®] 5776N 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, I2 @ 230°C	ASTM D1238	75 g/10 min	75 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	3,300 psi	23 MPa
Elongation at Yield (50 mm/min)	ASTM D638	6 %	6 %
Flexural Modulus (1.3 mm/min), 1% Secant	ASTM D790	155,000 psi	1,069 MPa
Heat Deflection Temperature @ 66 psi	ASTM D648	214 °F	101 °C
Rockwell Hardness	ASTM D785	89 R scale	89 R scale
Notched Izod Impact Strength @ 73 °F	ASTM D256A	3 ft-lb/in	160 J/m
Notched Izod Impact Strength @ 32 °F	ASTM D256A	1.2 ft-lb/in	64 J/m

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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