

## TechResin<sup>®</sup> 5777N

### ***Impact Copolymer for High Speed Injection Molded Applications***

TechResin<sup>®</sup> 5777N is a very high melt flow, low impact copolymer polypropylene. It is designed for such applications as packaging, housewares, and consumer goods and generally lighter weight components. It is characterized by easy mold flow, excellent physical property balance and finished product dimensional stability.

TechResin<sup>®</sup> 5777N 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 <sub>2</sub> @ 230°C	ASTM D1238	75 g/10 min	75 g/10 min
Density	ASTM D1505	0.9 g/cm <sup>3</sup>	0.9 g/cm <sup>3</sup>
Tensile Strength at Yield (50 mm/min)	ASTM D638	4,200 psi	29 MPa
Flexural Modulus (1.3 mm/min), 1% Secant	ASTM D790	210,000 psi	1448 MPa
Notched Izod Impact Strength @ 73°F	ASTM D256A	1.2 ft-lb/in	64 J/m
Heat Deflection Temperature @ 66 psi	ASTM D648	230 °F	110 °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,  
Published 1/10, Revised 5/13*