

## TechResin® 5712N

### ***Copolymer for Injection Molded Applications Requiring a Combination of High Toughness and Stiffness***

TechResin® 5712N is a copolymer polypropylene designed for heavy duty injection molding applications. It offers advantages in both processing and physical properties over many polypropylenes used for pails, crates and other rugged, injection molded applications.

TechResin® 5712N 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	13 g/10 min	13 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	3300 psi	23 MPa
Elongation at Yield (50 mm/min)	ASTM D638	5 %	5 %
Flexural Modulus (1.3 mm/min), 1% Secant	ASTM D790	165,000 psi	1130 MPa
Rockwell Hardness	ASTM D785	90 R scale	90 R Scale
Notched Izod Impact Strength @ 73°F	ASTM D256A	10 ft-lb/in	530 J/m
Notched Izod Impact Strength @ 32°F	ASTM D256A	2.2 ft-lb/in	117 J/m
Notched Izod Impact Strength @ 0°F	ASTM D256A	1.4 ft-lb/in	74 J/m
Heat Deflection Temperature @ 66 psi	ASTM D648	213 °F	100 °C
Heat Deflection Temperature @ 264 psi	ASTM D648	130 °F	54 °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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