

## TechResin® 5512B

### **Random Copolymer for Clear Storage Containers and Food and Beverage Containers**

TechResin® 5512B is a medium melt flow, random copolymer polypropylene with fast cycle time and easy mold release. It is designed for injection molding applications. Its clarity makes it an excellent choice for “see-through” housewares and rigid packaging.

TechResin® 5512B 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	12 g/10 min	12 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	4,400 psi	30 MPa
Elongation at Yield (50 mm/min)	ASTM D638	13 %	13 %
Flexural Modulus (1.3 mm/min), 1% Secant	ASTM D790	155,000 psi	1069 MPa
Rockwell Hardness	ASTM D785	108 R Scale	108 R Scale
Notched Izod Impact Strength @ 73°F	ASTM D256A	1.5 ft-lb/in	80 J/m
Gardner Impact Strength @ 23°C	ASTM D2794	170 in-lb	19 J
Heat Deflection Temperature @ 66 psi	ASTM D648	194 °F	90 °C
Plaque Haze, %	MDT method	15 %	15 %

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

*Gardener Specimen thickness was 3.2 mm.*

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

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