

TechResin® 5612N

Homopolymer for General Purpose Injection Molding

TechResin® 5612N is a homopolymer polypropylene designed for various general purpose injection molding applications such as closures, small appliances, housewares and toys. It contains a unique combination of stabilizers, which provides excellent processability with good stiffness, environmental stress crack resistance, heat performance and minimal odor & taste.

TechResin® 5612N 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	12 g/10 min	12 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	4,800 psi	33 MPa
Elongation at Yield (50 mm/min)	ASTM D638	8 %	8 %
Flexural Modulus (1.3 mm/min), 1% Secant	ASTM D790	180,000 psi	1241 MPa
Rockwell Hardness	ASTM D785	105 R Scale	105 R Scale
Notched Izod Impact Strength @ 73°F	ASTM D256A	0.6 ft-lb/in	21 J/m
Heat Deflection Temperature @ 66 psi	ASTM D648	212 °F	100 °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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