

TechResin[®] 5707N

Copolymer for Heavy Duty Injection Molded Applications

TechResin[®] 5707N is a high impact copolymer polypropylene designed and formulated for injection molding applications. It exhibits an excellent balance of stiffness and impact strength including performance at lower temperatures. TechResin[®] 5707N offers advantages in both processing and physical properties for applications including pails, crates and other material handling components.

TechResin[®] 5707N 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	7 g/10 min	7 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	2,700 psi	19 MPa
Elongation at Yield (50 mm/min)	ASTM D638	7 %	7 %
Flexural Modulus (1.3 mm/min), 1% Secant	ASTM D790	125,000 psi	862 MPa
Notched Izod Impact Strength @ 73°F	ASTM D256A	14.0 ft-lb/in	748 J/m
Notched Izod Impact Strength @ 32°F	ASTM D256A	13.6 ft-lb/in	726 J/m
Notched Izod Impact Strength @ 0°F	ASTM D256A	3.0 ft-lb/in	160 J/m
Notched Izod Impact Strength @ -22°F	ASTM D256A	2.6 ft-lb/in	139 J/m
Rockwell Hardness	ASTM D785	100 R Scale	100 R Scale
Heat Deflection Temperature @ 66 psi	ASTM D648	185 °F	85 °C

Notes: 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 3/99, Revised 4/13

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