



TechResin® 5651L

Homopolymer for Injection Molded Applications Requiring Heat Resistance

TechResin® 5651L is a highly isotactic, nucleated homopolymer polypropylene designed for consumer products and appliance applications that require high stiffness and long-term exposure to elevated temperatures. It has found success in home laundry and dishwasher applications.

TechResin® 5651L has earned a UL continuous service rating of 115 °C.

This material is free of animal-derived content.

Typical Properties of this Commercial Grade

		Typical Values			
Property	Test Method	English		SI	
Melt Flow Rate, I ₂ @ 230°C	ASTM D1238	5.0	g/10 min	5.0	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	5,800	psi	40	MPa
Elongation at Yield (50 mm/min)	ASTM D638	5.5	%	5.5	%
Flexural Modulus (1.3 mm/min), 1% Secant	ASTM D790	290,000	psi	2000	MPa
Rockwell Hardness	ASTM D785	115	R Scale	115	R Scale
Notched Izod Impact Strength @ 73°F	ASTM D256A	0.5	ft-lb/in	27	J/m
Heat Deflection Temperature @ 66 psi	ASTM D648	257	°F	125	°C
Heat Deflection Temperature @ 264 psi	ASTM D648	151	°F	66	°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 6/04, Revised 5/13

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