

## TechResin<sup>®</sup> 5638T

### *Homopolymer for Injection Molded Applications*

TechResin<sup>®</sup> 5638T is a homopolymer polypropylene for use in injection molded applications including cutlery and thin wall components. It contains a unique combination of stabilizers and additives, which provides excellent processability and good end use performance. It has increased mold release for good handling of components.

TechResin<sup>®</sup> 5638T 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	35 g/10 min	35 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	5,600 psi	39 MPa
Elongation at Yield (50 mm/min)	ASTM D638	7 %	7 %
Flexural Modulus (1.3 mm/min), 1% Secant	ASTM D790	240,000 psi	1655 MPa
Rockwell Hardness	ASTM D785	105 R Scale	105 R Scale
Notched Izod Impact Strength @ 73°F	ASTM D256A	0.7 ft-lb/in	37 J/m

*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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