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## NEXUS 500

### *High Melt Flow Crystal Polystyrene*

Nexus 500 is a high melt flow crystal polystyrene for high speed injection molding applications. The high flow characteristics make it easy to fill thin wall parts. Additionally, this material exhibits excellent clarity and strength. Applications include cutlery, tumblers, containers, gloss capping material, blending crystal, and masterbatch carrier.

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### *Typical Properties*

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Rheological Properties	ASTM Test	Unit	Typical Value
Melt Flow (200°C-5kg)	D1238	g/10mn	14
<b>Thermal Properties</b>			
Heat Distortion - Annealed	D648	°F	195
Vicat Softening	D1525	°F	206
<b>Tensile Properties</b>			
Strength	D638	psi	6,400
Modulus	D638	psi (10 <sup>5</sup> )	4.5

## Flexural Properties

Strength	D790	psi	12,200
Modulus	D790	psi (10 <sup>5</sup> )	4.6

## Other Properties

Density		g/cm <sup>3</sup>	1.04
Linear Shrinkage	D955	in/in	.004-.007
Moisture		%	<0.1

## General Information

Material complies with FDA requirements.

Material holds Underwriters Laboratory recognition.

Material Safety Data Sheets are available.

Nexus Resin Group, LLC has no control over the use to which others may put this material. Nexus Resin Group, LLC does not guarantee that the same results as described will be obtained by the end user. Nexus Resin Group, LLC does not guarantee the effectiveness or safety of any material for the design or the suitability of the material nor the designs of both for the end user's own particular use. Statements concerning possible or suggested uses of the materials or designs described herein are not to be construed as recommendations for use of such materials or designs.

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