



NEXUS 585

High Heat Crystal Polystyrene

Nexus 585 is a high molecular weight, low melt flow, high heat crystal polystyrene. This polymer also makes superior foam and oriented polystyrene sheet (OPS). Process technology consistently produces low residual product for foam and OPS applications. Applications are foam disposables, insulation foam board, and OPS disposables.

Typical Properties

Rheological Properties	ASTM Test	Unit	Typical Value
Melt Flow (200°C-5kg)	D1238	g/10mn	1.6
Thermal Properties			
Heat Distortion - Annealed	D648	°F	211
Vicat Softening	D1525	°F	225
Tensile Properties			
Strength	D638	psi	7,600
Modulus	D638	psi (10 ⁵)	4.3

Flexural Properties

Strength	D790	psi	14,200
Modulus	D790	psi (10 ⁵)	4.3

Other Properties

Density		g/cm ³	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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