

# NEXUS PS 585

General Purpose Polystyrene

Nexus Resin Group, LLC.

## Message:

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.

General Information			
Features	Crystal		
	Foamable		
	High Heat Resistance		
	High Molecular Weight		
	Low Flow		
	Low Residuals		
Uses	Foam		
	Foamed Insulation Board		
	Sheet		
Agency Ratings	FDA Unspecified Rating		
	UL Unspecified Rating		
Processing Method	Foam Processing		
Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm <sup>3</sup>	
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.6	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (24 hr)	< 0.10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2960	MPa	ASTM D638
Tensile Strength (Yield)	52.4	MPa	ASTM D638
Flexural Modulus	2960	MPa	ASTM D790
Flexural Strength	97.9	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Annealed)	99.4	°C	ASTM D648
Vicat Softening Temperature	107	°C	ASTM D1525

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