

VINPOL™ PS016H

General Purpose High Heat Polystyrene

Melt Flow: 1.6

Standard Tint Only

VINPOL PS016H is a high molecular weight, high heat crystal, general purpose polystyrene resin designed for direct injection foam applications. This product has higher melt strength than similar high heat crystal PS resins in its melt flow range which allows converting at reduced weight in foam applications. Typical applications include disposable foam items, foam graphic art and insulation boards and OPS disposables. This product is compliant with FDA 21 CFR 177.1640.

Resin Property	Typical Value	Units	Test Method
Melt Flow Rate, 200°C/5.0kg	1.6	g/10 min	ASTM D-1238
Density	1.04	g/cm ³	ASTM D-792
Tensile Modulus	440,000 (3,030)	psi (MPa)	ASTM D-638
Tensile Strength	7,700 (53)	psi (MPa)	ASTM D-638
Flexural Strength	15,100 (104)	psi (MPa)	ASTM D-790
Flexural Modulus	490,000 (3,380)	psi (MPa)	ASTM D-790
Vicat Softening Temperature	225 (107)	°F (°C)	ASTM D-1525
Heat Distortion - Annealed	211 (99.4)	°F (°C)	ASTM D648
Water Absorption	<0.1	%	Supplier Method
Linear Shrinkage	0.004-0.007	In/in	ASTM D-955

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