

## Ineos Nova W441A Expandable Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Expanded Polystyrene (EPS)

### Material Notes:

A regular molding grade consisting of spherical polystyrene beads containing pentane as expansion agent, typically used for high density foam applications. Applications: This grade is used mainly for producing high density block and contour molding. It offers controllable pre-expansion, short maturing times, fast cycle time during molding and low shrinkage in the density range of 30-80 kg/m<sup>3</sup>. Information provided by NOVA Chemicals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ineos-Nova-W441A-Expandable-Polystyrene.php](http://www.lookpolymers.com/polymer_Ineos-Nova-W441A-Expandable-Polystyrene.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.620 g/cc	0.0224 lb/in <sup>3</sup>	
Density	>= 0.0300 g/cc	>= 0.00108 lb/in <sup>3</sup>	Minimum achievable; Single stage pre-expansion in continuous expander at atmospheric pressure
	0.0300 - 0.0800 g/cc	0.00108 - 0.00289 lb/in <sup>3</sup>	Normal molded density assuming cost optimized selection of processing conditions.
Bead Size	0.800 - 1.30 mm	0.0315 - 0.0512 in	
	0.700 - 1.40 mm	0.0276 - 0.0551 in	> 95% in this range per Berre Laboratory Analytical Methods 0492

Chemical Properties	Metric	English	Comments
Styrene Content	<= 0.10 %	<= 0.10 %	Residual Styrene Monomer Content per Berre Laboratory Analytical Methods 0075
Blowing Agent Content	>= 4.5 %	>= 4.5 %	

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