

Ineos Nova Styrocell® M442C Expandable Polystyrene

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

Material Notes:

A high strength, fast cycling regular molding grade consisting of spherical polystyrene beads containing pentane as expansion agent, typically used for medium density foam. Applications: Styrocell M442C is used mainly for producing low/medium density block which is cut to make insulation board. Other applications include block used in construction and cut packaging. This grade complies with major European and US food contact regulatory regimes, including: European Community Directive 90/128/ECC, including 92/39/EEC and 95/EC, relating to plastics materials and articles, intended to come into contact with foodstuffs. Dutch Food Packaging Regulations. Recommendations of German Federal Office of Health (BGA), now regulated by the new Institute of Consumer Health (BGVV), Empfehlung V. US Food and Drug Administration Code of Federal Regulations title 21, sections 177.1640 (Polystyrene) and 178.3010 (Blowing Agents). Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ineos-Nova-Styrocell-M442C-Expandable-Polystyrene.php

Physical Properties	Metric	English	Comments
Bulk Density	0.620 g/cc	0.0224 lb/in ³	
Density	>= 0.0160 g/cc	>= 0.000578 lb/in ³	Minimum achievable; Single stage pre-expansion in continuous expander at atmospheric pressure
	0.0160 - 0.0250 g/cc	0.000578 - 0.000903 lb/in ³	Normal molded density assuming cost optimized selection of processing conditions.
Bead Size	1.00 - 1.40 mm	0.0394 - 0.0551 in	
	0.710 - 1.70 mm	0.0280 - 0.0669 in	Carrington Laboratory Analytical Methods 2155

Chemical Properties	Metric	English	Comments
Styrene Content	<= 0.10 %	<= 0.10 %	Residual Styrene Monomer Content per Carrington Laboratory Analytical Methods 3112
Blowing Agent Content	>= 6.2 %	>= 6.2 %	Carrington Laboratory Analytical Methods 3135

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