

## NOVA Chemicals Dytherm® 140R Expandable Polystyrene

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

**Material Notes:**

This is a special grade consisting of spherical beads of a blend of polystyrene-polyphenylene ether containing pentane as expansion agent, typically used for medium density foam with improved thermal resistance. Applications: This grade is used for medium density foam with improved thermal resistance. Typical applications include hot water insulation and automotive parts (interior and exterior). Processing of DYTHERM beads on pressurized batch pre-expanders is recommended. DYTHERM 140R can be processed on a continuous pre-expander when high densities are acceptable. Detailed processing advice is given in the DYTHERM bulletins, available from your local NOVA Chemicals company. This grade should not be used for food contact applications. Information provided by NOVA Chemicals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NOVA-Chemicals-Dytherm-140R-Expandable-Polystyrene.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Dytherm-140R-Expandable-Polystyrene.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.620 g/cc	0.0224 lb/in <sup>3</sup>	
Density	>= 0.0200 g/cc	>= 0.000723 lb/in <sup>3</sup>	Minimum achievable; Single stage pre-expansion in continuous expander at atmospheric pressure
	0.0200 - 0.100 g/cc	0.000723 - 0.00361 lb/in <sup>3</sup>	Normal molded density assuming cost optimized selection of processing conditions.
Bead Size	1.00 - 1.50 mm	0.0394 - 0.0591 in	
	0.900 - 1.60 mm	0.0354 - 0.0630 in	Breda Laboratory Analytical Methods 90.30

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	104 °C	219 °F	Modified ISO 2796-1980; Typical maximum temperature to which parts can be exposed short term (1 hour) without significant deformation (<1%).

Chemical Properties	Metric	English	Comments
Styrene Content	<= 0.10 %	<= 0.10 %	Residual Styrene Monomer Content per Breda Laboratory Analytical Methods 90.16
Blowing Agent Content	>= 5.7 %	>= 5.7 %	Breda Laboratory Analytical Methods 90.18

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