

## NOVA Chemicals Dytherm® 170R Expandable Polystyrene

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

### Material Notes:

This is a special flame retardant grade consisting of spherical beads of a blend of polystyrene and polyphenylene ether containing pentane as expansion agent, and an internal flame-retardant additive. It is typically used for medium density foam with improved thermal resistance. Applications: This grade is used for medium density foam with wall-thickness generally greater than or equal to 10 mm and with improved thermal resistance. Typical applications include hot-water insulation, pipe-insulation, helmet inner liners, and automotive parts (interior and exterior). Processing of DYTHERM beads on pressurized batch pre-expander is recommended. It can be processed on a continuous pre-expander when higher densities are acceptable. 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-170R-Expandable-Polystyrene.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Dytherm-170R-Expandable-Polystyrene.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.620 g/cc	0.0224 lb/in <sup>3</sup>	
Density	>= 0.0250 g/cc	>= 0.000903 lb/in <sup>3</sup>	Minimum achievable; Single stage pre-expansion in continuous expander at atmospheric pressure
	0.0250 - 0.100 g/cc	0.000903 - 0.00361 lb/in <sup>3</sup>	Normal molded density assuming cost optimized selection of processing conditions.
Bead Size	0.300 - 0.700 mm	0.0118 - 0.0276 in	Breda Laboratory Analytical Methods 90.30
	0.400 - 0.700 mm	0.0157 - 0.0276 in	

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	>= 5.8 %	>= 5.8 %	Breda Laboratory Analytical Methods 90.18

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