NOVA Chemicals Dytherm® 150F 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 a 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. It does not comply with DIN 4102 B2-classificiation. Typical applications include hot-water insulation, pipe-insulation and automotive parts (interior and exterior).Processing of DYTHERM beads on pressurized batch pre-expander is recommended. It can be process 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-150F-Expandable-Polystyrene.php

Physical Properties	Metric	English	Comments
Bulk Density	0.620 g/cc	0.0224 lb/in³	
Density	>= 0.0200 g/cc	>= 0.000723 lb/in³	Minimum achievable; Single stage pre-expansion in continuous expander at atmospheric pressure
	0.0200 - 0.100 g/cc	0.000723 - 0.00361 lb/in³	Normal molded density assuming cost optimized selection of processing conditions.
Bead Size	0.600 - 1.20 mm	0.0236 - 0.0472 in	Breda Laboratory Analytical Methods 90.30
	0.700 - 1.20 mm	0.0276 - 0.0472 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	>= 5.7 %	>= 5.7 %	Breda Laboratory Analytical Methods 90.18

Descriptive Properties	Value	Comments
Reaction to Fire	602	SE/NBR

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