

NOVA Chemicals Dytherm® 170F 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-classification. 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-170F-Expandable-Polystyrene.php

| Physical Properties | Metric | English | Comments |
|---------------------|---------------------|---------------------------------------|---|
| Bulk Density | 0.620 g/cc | 0.0224 lb/in ³ | |
| Density | >= 0.0250 g/cc | >= 0.000903 lb/in ³ | Minimum achievable; Single stage pre-expansion in continuous expander at atmospheric pressure |
| | 0.0250 - 0.100 g/cc | 0.000903 - 0.00361 lb/in ³ | Normal molded density assuming cost optimized selection of processing conditions. |
| Bead Size | 0.300 - 0.700 mm | 0.0118 - 0.0276 in | |
| | 0.200 - 0.800 mm | 0.00787 - 0.0315 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 |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Reaction to Fire | 602 | SE/NBR |

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