



TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polystyrene 536W

Technical Data Sheet
Polystyrene - Crystal
Produced in the United States

Description

Polystyrene 536W: Is a high melt flow; high heat crystal polystyrene designed for fast cycle injection molding. It is also designed for high output, direct injection profile extrusion for foam applications.

Application:

- Foam board
- Wood replacement

General Information:

- This material complies with FDA requirements as described in 21 CFR §177.1640.
- This material holds Underwriters Laboratory recognition 94HB; see UL File E55470 at www.UL.com.
- USP Class VI
- Material Safety Data Sheets are available to help customers satisfy their safety needs.

Characteristics

| | Method | Unit | Typical Value |
|----------------------------------|--------|------------------------|---------------|
| Rheological Properties | | | |
| Melt Flow (200°C-5kg) | D-1238 | g/10mn | 8.5 |
| Mechanical Properties | | | |
| Tensile Strength | D-638 | psi | 6,500 |
| Tensile Modulus | D-638 | psi (10 ⁵) | 4.3 |
| Flexural Strength | D-790 | psi | 11,700 |
| Flexural Modulus | D-790 | psi (10 ⁵) | 4.3 |
| Thermal Properties | | | |
| Heat Distortion - Annealed | D-648 | °F | 205 |
| Vicat Softening | D-1525 | °F | 219 |
| Other Physical Properties | | | |
| Density | | g/cm ³ | 1.04 |
| Linear Shrinkage | D-955 | in/in | .004 - .007 |
| Moisture | | % | <0.1 |

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Polystyrene

All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TotalEnergies products must be guided by the users own methods for selection of proper formulation. TotalEnergies Petrochemicals & Refining USA, Inc. disclaims any responsibility for misuse or misapplication of its products. TotalEnergies MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TotalEnergies' liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.