



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 |

Polystyrene

Rev: Sept 2021

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