



TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.

Polymers Americas

Description

Polystyrene 529W: Is a medium flow crystal polystyrene specially formulated for mar resistance. This easy processing crystal grade minimizes visual defects from ejection and automated part handling. The unique molecular architecture maximizes part strength while maintaining excellent process performance. It is an economical alternative to SAN and polycarbonate.

Application:

- Electronics
- Office accessories
- Appliance components

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 | 3.5 |
| Mechanical Properties | | | |
| Tensile Strength | D-638 | psi | 7,500 |
| Tensile Modulus | D-638 | psi (10 ⁵) | 4.3 |
| Flexural Strength | D-790 | psi | 14,000 |
| Flexural Modulus | D-790 | psi (10 ⁵) | 4.3 |
| Thermal Properties | | | |
| Heat Distortion - Annealed | D-648 | °F | 196 |
| Vicat Softening | D-1525 | °F | 208 |
| 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