

Description

Polystyrene 585W: Is a high molecular weight, low melt flow, low melt flow, high heat crystal polystyrene. This polymer makes superior foam and oriented polystyrene sheet (OPS). The TOTAL process technology consistently produces low residual product for foam and OPS applications.

Application:

- Foam disposables
- Insulation foam board
- OPS disposables

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 | 1.6 |
| Mechanical Properties | | | |
| Tensile Strength | D-638 | psi | 7,600 |
| Tensile Modulus | D-638 | psi (10 ⁵) | 4.3 |
| Flexural Strength | D-790 | psi | 14,200 |
| Flexural Modulus | D-790 | psi (10 ⁵) | 4.3 |
| Thermal Properties | | | |
| Heat Distortion - Annealed | D-648 | °F | 211 |
| Vicat Softening | D-1525 | °F | 225 |
| Other Physical Properties | | | |
| Density | | g/cm ³ | 1.04 |
| Linear Shrinkage | D-955 | in/in | .004 - .007 |
| Moisture | | % | <0.1 |

585W 2/2014

Polystyrene


 TOTAL PETROCHEMICALS & REFINING USA, INC.
 POLYMERS AMERICAS
www.totalrefiningchemicals.com
 1201 Louisiana Street
 Suite 1800
 Houston, TX 77002

 TECHNICAL CENTER
 P.O. Box 1200
 Deer Park, Texas 77536
 Phone: 281-884-7500

1-800-344-3462

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 TOTAL products must be governed by the users own methods for selection of proper formulation. TOTAL PETROCHEMICALS & REFINING USA, INC. disclaims any responsibility for misuse or miss application of its products. TOTAL MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TOTAL'S liability and customer's exclusive remedy for any claims arising out of sales of its products are expressed and 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.

