

TOTAL Polystyrene Crystal 585B

General Purpose Polystyrene

TOTAL Refining & Chemicals

Message:

Polystyrene 585B: Is a high molecular weight, 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.

| General Information | | | |
|--|-------------------------|-------------------|-------------|
| Features | Low Residuals | | |
| | High molecular weight | | |
| | Low liquidity | | |
| | Heat resistance, high | | |
| | Disposable | | |
| Uses | Foamed insulation board | | |
| | Foam | | |
| | Sheet | | |
| Agency Ratings | FDA 21 CFR 177.1640 | | |
| | USP Class VI | | |
| UL File Number | E55470 | | |
| Forms | Particle | | |
| Processing Method | Foam treatment | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.04 | g/cm ³ | |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 1.6 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.40 - 0.70 | % | ASTM D955 |
| Moisture | | % | |
| Heat Distortion - Annealed | 99 | °C | ASTM D648 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 2960 | MPa | ASTM D638 |
| Tensile Strength | 52.4 | MPa | ASTM D638 |
| Flexural Modulus | 2960 | MPa | ASTM D790 |

| | | | |
|-----------------------------|---------------|------|-------------|
| Flexural Strength | 97.9 | MPa | ASTM D790 |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 107 | °C | ASTM D1525 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | HB | | UL 94 |

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