

Description

Polystyrene 740: Impact polystyrene designed for extrusion and injection molding. It is especially suitable for extrusion thermoforming applications requiring high gloss and high stiffness. A unique combination of thermal properties and high stiffness favors 740 for thin walling, high-speed thermoforming gloss, small appliance, and electronics applications.

Application:

- Food service disposables such as lids, cups, and portion cup containers.
- Injection molding applications requiring high gloss.

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 | 4.0 |
| Mechanical Properties | | | |
| Falling Dart | D-3029 | in-lb | 120 |
| Izod - notched | D-256 | ft-lbs/in | 2.0 |
| Tensile Strength | D-638 | psi | 4,400 |
| Tensile Modulus | D-638 | psi (10 ⁵) | 3.4 |
| Elongation | D-638 | % | 45 |
| Flexural Strength | D-790 | psi | 8,000 |
| Flexural Modulus | D-790 | psi (10 ⁵) | 3.7 |
| Thermal Properties | | | |
| Heat Distortion - Annealed | D-648 | °F | 201 |
| Vicat Softening | D-1525 | °F | 214 |
| Other Physical Properties | | | |
| Gloss | D-523 | 60° | 92 |
| Density | | g/cm ³ | 1.04 |
| Linear Shrinkage | D-955 | in/in | .004 - .008 |
| Moisture | | % | <0.1 |

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