

## Description

**Polystyrene CX5197:** Is a medium melt flow crystal polystyrene developed for extrusion foam board (construction) and foam sheet (food containers).

### Application:

- Insulation foam board

### General Information:

- This material complies with FDA requirements as described in 21 CFR §177.1640.
- USP Class VI
- Material Safety Data Sheets are available to help customers satisfy their safety needs.

## Characteristics

|                                  | Method | Unit                   | Typical Value |
|----------------------------------|--------|------------------------|---------------|
| <b>Rheological Properties</b>    |        |                        |               |
| Melt Flow (200°C-5kg)            | D-1238 | g/10mn                 | 4.5           |
| <b>Mechanical Properties</b>     |        |                        |               |
| Tensile Strength                 | D-638  | psi                    | 7,400         |
| Tensile Modulus                  | D-638  | psi (10 <sup>5</sup> ) | 4.3           |
| Flexural Strength                | D-790  | psi                    | 14,000        |
| Flexural Modulus                 | D-790  | psi (10 <sup>5</sup> ) | 4.5           |
| <b>Thermal Properties</b>        |        |                        |               |
| Heat Distortion - Annealed       | D-648  | °F                     | 208           |
| Vicat Softening                  | D-1525 | °F                     | 222           |
| <b>Other Physical Properties</b> |        |                        |               |
| Density                          |        | g/cm <sup>3</sup>      | 1.04          |
| Linear Shrinkage                 | D-955  | in/in                  | .004 - .007   |
| Moisture                         |        | %                      | <0.1          |