TOTAL Polystyrene CX5229
Enhanced Flow
High Heat Crystal Polystyrene

Total Petrochemicals Polystyrene CX5229 is an enhanced flow, high heat crystal (HHC) polystyrene designed to satisfy demanding requirements in foam sheet extrusion, oriented polystyrene and blown film applications, by providing improved flow characteristics without sacrificing the melt strength critical for these processes.

Features
- Increased throughput, up to 15%
- Lower energy requirement
- Improved melt strength
- Higher compressive strength

Benefits
- Lower per unit fixed cost, increased capacity
- Reduced energy cost
- Improved product performance
- Enhanced application development

Properties comparison

<table>
<thead>
<tr>
<th></th>
<th>Standard HHC</th>
<th>CX5229</th>
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</thead>
<tbody>
<tr>
<td>Melt flow, g/10 min</td>
<td>1.6</td>
<td>3.0</td>
</tr>
<tr>
<td>Molecular weight, kD</td>
<td>305</td>
<td>315</td>
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<tr>
<td>Molecular weight dist.</td>
<td>2.4</td>
<td>3.3</td>
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<tr>
<td>Melt Strength, N</td>
<td>0.055</td>
<td>0.060</td>
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</table>

The main benefit of CX5229 is the higher throughput versus conventional materials. Optimized processing conditions may result in rate improvements as high as 10-15%.

CX5229 offers higher melt flow and increased melt strength foam at high production rates.

CX5229 may be processed with minimal changes in extrusion conditions. The lower viscosity allows processing at lower temperatures.

Studies show that CX5229 will allow increased CO₂ solubility.

Other Information
(1) This material complies with FDA requirements as described in CFR Section 177.1640
(2) Underwriters Laboratory listing of HB94 pending.
(3) Material Safety Data Sheets are available to help customers satisfy their safety needs.