



TexRes High Impact Polystyrene

TexCo Resin - High Impact Polystyrene

General Information

Product Description

A high impact grade of polystyrene characterized by good impact and processability.

General

| | | |
|-------------------|--------------------------|-----------------------|
| Features | • Good Impact Resistance | • Good Processability |
| Processing Method | • Extrusion | • Injection Molding |

Properties¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|----------|-----------------|
| Density / Specific Gravity | 1.04 | | |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 8.0 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 230000 | psi | ASTM D638 |
| Tensile Strength (Break) | 3900 | psi | ASTM D638 |
| Tensile Elongation (Break) | 45 | % | ASTM D638 |
| Flexural Modulus | 280000 | psi | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 2.0 | ft·lb/in | ASTM D256 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (L-Scale) | 47 | | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Annealed) | 178 | °F | ASTM D648 |
| Vicat Softening Temperature | 185 | °F | ASTM D1525 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | HB | | Internal Method |