

Osterlene® HE-3.0-2.0

High Impact Polystyrene

Osterman & Company

Message:

HE-3.0-2.0 is a high impact polystyrene designed specifically for extrusion/thermoforming.

The polymers balanced properties and processing characteristics make it especially suitable for industrial packaging deep draw thermoforming and custom multilayer sheet extrusion.

This popular resin has established itself as the standard extrusion grade high impact polystyrene.

| General Information | |
|---------------------|-------------------------|
| Features | High Impact Resistance |
| Uses | Industrial Applications |
| | Packaging |
| | Sheet |
| Agency Ratings | FDA 21 CFR 177.1640 |
| Forms | Pellets |
| Processing Method | Extrusion |
| | Sheet Extrusion |
| | Thermoforming |

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------|-------------|
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 3.0 | g/10 min | ASTM D1238 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 2070 | MPa | ASTM D638 |
| Tensile Strength (Yield) | 24.1 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 55 | % | ASTM D638 |
| Flexural Modulus | 2210 | MPa | ASTM D790 |
| Flexural Strength | 47.6 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact | 110 | J/m | ASTM D256 |
| Gardner Impact | 14.1 | J | ASTM D3029 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Annealed) | 93.9 | °C | ASTM D648 |
| Vicat Softening Temperature | 98.9 | °C | ASTM D1525 |
| Flammability | Nominal Value | Test Method | |
| Flame Rating | HB | UL 94 | |
| Optical | Nominal Value | Test Method | |
| Gardner Gloss (60°) | 70 | ASTM D523 | |

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