

Avantra® 8930

High Impact Polystyrene

PMC Group Polymer Products

Message:

Avantra® 8930 is a ignition-resistant grade of high impact polystyrene. It is free of polybrominated diphenylethers and meets UL94V-2 rating. Avantra® 8930 offers an excellent combination of thermal stability, toughness and moldability.

Applications:

Avantra® 8930 is intended primarily for copier parts, business machine enclosures, and appliance components.

| General Information | | | |
|---|------------------------|-------------------|-------------|
| UL YellowCard | E71210-249295 | | |
| Features | Good Moldability | | |
| | Good Thermal Stability | | |
| | Good Toughness | | |
| | High Impact Resistance | | |
| Uses | Appliance Components | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.07 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 10 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow | 0.30 to 0.60 | % | ASTM D955 |
| Water Absorption | | | ASTM D570 |
| Saturation, 23°C | < 0.15 | % | |
| Equilibrium, 23°C, 50% | < 0.10 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (L-Scale) | 55 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield | 25.0 | MPa | |
| Break | 21.0 | MPa | |
| Tensile Elongation (Yield) | 60 | % | ASTM D638 |
| Flexural Modulus ¹ | 2140 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 130 | J/m | ASTM D256A |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 87.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 100 | °C | ASTM D1525 |
| Flammability | Nominal Value | | Test Method |

| | | |
|--|-------------------------|-------|
| Flame Rating (1.50 mm, All Color, Solid) | V-2 | UL 94 |
| Injection | Nominal Value | Unit |
| Processing (Melt) Temp | 200 to 240 | °C |
| NOTE | | |
| 1. | Method I (3 point load) | |

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