

Styrolution PS 156F

General Purpose Polystyrene

INEOS Styrolution Group GmbH

Message:

Styrolution PS 156F is a general purpose polystyrene grade with excellent flow properties, high heat resistance and is zinc stearate free.

| General Information | | | |
|---|--|------------------------|-------------------------|
| Features | General Purpose Good Flow High Heat Resistance | | |
| Forms | Granules | | |
| Processing Method | Extrusion Foam Processing | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.04 | g/cm ³ | ISO 1183 |
| Melt Volume-Flow Rate (MVR) (200°C/5.0 kg) | 28.0 | cm ³ /10min | ISO 1133 |
| Molding Shrinkage | 0.40 to 0.60 | % | ISO 294-4 |
| Water Absorption | | | ISO 62 |
| Saturation, 23°C | < 0.10 | % | |
| Equilibrium, 23°C, 50% RH | < 0.10 | % | |
| Hardness | Nominal Value | Unit | Test Method |
| Ball Indentation Hardness | 150 | MPa | ISO 2039-1 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 3200 | MPa | ISO 527-2 |
| Tensile Stress (Yield, 23°C) | 40.0 | MPa | ISO 527-2 |
| Nominal Tensile Strain at Break (23°C) | 1.5 | % | ISO 527-2 |
| Flexural Stress | 50.0 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Unnotched Impact Strength (23°C) | 5.0 | kJ/m ² | ISO 179 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (1.8 MPa, Annealed) | 90.0 | °C | ISO 75-2/A |
| Vicat Softening Temperature | 101 | °C | ASTM D1525 ¹ |
| CLTE - Flow | 8.0E-5 | cm/cm/°C | ISO 11359-2 |
| Thermal Conductivity | 0.16 | W/m/K | DIN 52612 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | > 1.0E+13 | ohms | IEC 60093 |
| Volume Resistivity | > 1.0E+18 | ohms · cm | IEC 60093 |

| Extrusion | Nominal Value | Unit |
|------------------|---------------|------|
| Melt Temperature | 180 to 280 | °C |
| NOTE | | |

1. Rate B (120°C/h), Loading 2 (50 N)

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