

Total PSI 3351 High Heat Resistance Impact Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

Material Notes:

Total Petrochemicals Polystyrene 3351 is a high heat resistance, high impact polystyrene for injection molding. It is recommended for the manufacturing of articles which require good dimensional stability. Suitable applications for Total Petrochemicals Polystyrene 3351 include TV Covers, printers, scanners and electrical appliances. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PSI-3351-High-Heat-Resistance-Impact-Polystyrene.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|------------|
| Specific Gravity | 1.04 g/cc | 1.04 g/cc | ASTM D792 |
| Water Absorption | 0.070 % | 0.070 % | ASTM D570 |
| Linear Mold Shrinkage | 0.0040 - 0.0070 cm/cm | 0.0040 - 0.0070 in/in | ASTM D955 |
| Melt Flow | 5.5 g/10 min @Load 5.00 kg, Temperature 200 °C | 5.5 g/10 min @Load 11.0 lb, Temperature 392 °F | ASTM D1238 |
| Spiral Flow | 46.0 cm @Temperature 220 °C | 18.1 in @Temperature 428 °F | ASTM D3123 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|-----------|
| Hardness, Rockwell R | 99 | 99 | ASTM D785 |
| Tensile Strength at Break | 30.0 MPa | 4350 psi | ASTM D638 |
| Tensile Strength, Yield | 32.0 MPa | 4640 psi | ASTM D638 |
| Elongation at Break | 55 % | 55 % | ASTM D638 |
| Tensile Modulus | 2.20 GPa | 319 ksi | ASTM D638 |
| Flexural Modulus | 2.00 GPa | 290 ksi | ASTM D790 |
| Izod Impact, Notched (ISO) | 9.50 kJ/m ² | 4.52 ft-lb/in ² | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|------------------------|-------------------------|-------------------------|---------------------------|
| CTE, linear | 91.0 µm/m-°C | 50.6 µin/in-°F | ASTM D696 |
| Hot Ball Pressure Test | 90.0 °C | 194 °F | JET, 2.0 mm |
| Vicat Softening Point | 100 °C @Load 1.02 kg | 212 °F @Load 2.25 lb | 50°C per hour; ASTM D1525 |

| Thermal Properties | Metric | English | Comments |
|-----------------------------|---------|---------|-----------|
| Heat Distortion Temperature | 88.3 °C | 191 °F | ASTM D149 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------------------|--------------------------------|------------|
| Surface Resistance | $\geq 1.00 \times 10^{13}$ ohm | $\geq 1.00 \times 10^{13}$ ohm | ISO IEC 93 |
| Dielectric Strength | 150 kV/mm | 3810 kV/in | ASTM D149 |

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