

Styrolution PS 7800 HIPS

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Impact Modified

Material Notes:

Extremely high surface gloss Good processability UL Classification 94 HB Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-PS-7800-HIPS.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|-------------|
| Density | 1.04 g/cc | 0.0376 lb/in ³ | ASTM D 792 |
| Linear Mold Shrinkage | 0.0040 - 0.0070 cm/cm | 0.0040 - 0.0070 in/in | ASTM D 955 |
| Melt Flow | 3.6 g/10 min @Load 5.00 kg, Temperature 200 °C | 3.6 g/10 min @Load 11.0 lb, Temperature 392 °F | ASTM D 1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------|---------------|------------|
| Hardness, Rockwell L | 55 | 55 | ASTM D 785 |
| Tensile Strength, Yield | 28.3 MPa | 4100 psi | ASTM D 638 |
| Elongation at Break | 25 % | 25 % | ASTM D 638 |
| Tensile Modulus | 1.79 GPa | 260 ksi | ASTM D 638 |
| Flexural Strength | 52.1 MPa | 7550 psi | ASTM D 790 |
| Flexural Modulus | 1.97 GPa | 285 ksi | ASTM D 790 |
| Izod Impact, Notched | 0.801 J/cm | 1.50 ft-lb/in | ASTM D 638 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|-------------------------|-------------------------|----------------------|
| CTE, linear | 90.0 µm/m-°C | 50.0 µin/in-°F | ASTM D 696 |
| Vicat Softening Point | 101 °C @Load 1.02 kg | 214 °F @Load 2.25 lb | 120°C/h; ASTM D 1525 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|---------------------------------|
| Gloss | 95 % | 95 % | Specular Gloss, 60°; ASTM D 523 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| | 2.5 | 2.5 | |

| Dielectric Constant Electrical Properties | @Thickness 1.00 mm, Metric Frequency 1.00e+6 Hz | @Thickness 0.0394 in, English Frequency 1.00e+6 Hz | ASTM D 150 Comments |
|--|---|--|------------------------|
| Dielectric Strength | 15.7 kV/mm | 400 kV/in | ASTM D 696 |

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