# Styron MAGNUMâ„¢ 3904 Smooth Acrylonitrile Butadiene Styrene (ABS) Resin

**Category :** Polymer , Thermoplastic , ABS Polymer

**Material Notes:**

Overview: MAGNUMâ„¢ 3904 is an extrusion/thermoforming resin developed for high impact and other technical applications. The mass (continuous process) ABS technology of Styron ensures an ABS technology of Styron ensures an ABS resin that combines excellent processabiltiy with a stable light base color that is ideal for self-coloring. The new MAGNUM â€˜Smooth Seriesâ€™ resins have an ultra low particulate content, which results in a good surface finish that will enable our customers to produce parts with excellent aesthetics at a low total cost.Applications: TransportationProtective coversSanitary wareMarineSignageRecreation vehiclesFurnishingsInformation provided by Styron

Order this product through the following link:
http://www.lookpolymers.com/polymer_Styron-MAGNUM-3904-Smooth-Acrylonitrile-Butadiene-Styrene-ABS-Resin.php

| Physical Properties | Metric | English | Comments |
|---|---|---|---|
| Density | 1.05 g/cc | 0.0379 lb/inÂ³ | ISO 1183/B |
| Apparent Bulk Density | 0.650 g/cc | 0.0235 lb/inÂ³ | ISO 60 |
| Linear Mold Shrinkage, Flow | 0.0040 - 0.0070 cm/cm | 0.0040 - 0.0070 in/in | ISO 294-4 |
| Melt Flow | 4.7 g/10 min<br>@Load 10.0 kg, Temperature 220 Â°C | 4.7 g/10 min<br>@Load 22.0 lb, Temperature 428 Â°F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Tensile Strength, Yield | 37.0 MPa<br>@Thickness 3.20 mm | 5370 psi<br>@Thickness 0.126 in | Injection Molded; ISO 527-2/50 |
| | 39.0 MPa<br>@Thickness 3.20 mm | 5660 psi<br>@Thickness 0.126 in | Injection Molded; ISO 527-2/100 |
| Elongation at Yield | 2.6 %<br>@Thickness 3.20 mm | 2.6 %<br>@Thickness 0.126 in | Injection Molded; ISO 527-2/50 |
| | 2.8 %<br>@Thickness 3.20 mm | 2.8 %<br>@Thickness 0.126 in | Injection Molded; ISO 527-2/100 |
| Tensile Modulus | 1.82 GPa<br>@Thickness 3.20 mm | 264 ksi<br>@Thickness 0.126 in | Injection Molded; ISO 527-2 |
| Flexural Strength | 58.0 MPa<br>@Thickness 3.20 mm | 8410 psi<br>@Thickness 0.126 in | 3-points, 2 mm/min, Injection Molded; ISO 178 |
| | 1.90 GPa | 276 ksi | |

| Mechanical Properties | Metric | English | Comments |
|---|---|---|---|
| Flexural Modulus | @Thickness 3.20 mm | @Thickness 0.126 in | 3-points, 2 mm/min, Injection Molded; ISO 178 |
| Izod Impact, Notched (ISO) | 17.0 kJ/mÂ² @Temperature -30.0 Â°C | 8.09 ft-lb/inÂ² @Temperature -22.0 Â°F | Injection Molded; ISO 180/A |
| | 42.0 kJ/mÂ² @Temperature 23.0 Â°C | 20.0 ft-lb/inÂ² @Temperature 73.4 Â°F | Injection Molded; ISO 180/A |
| Charpy Impact, Notched | 1.20 J/cmÂ² @Temperature -30.0 Â°C | 5.71 ft-lb/inÂ² @Temperature -22.0 Â°F | Injection Molded; ISO 179/2C |
| | 1.80 J/cmÂ² @Temperature -30.0 Â°C | 8.57 ft-lb/inÂ² @Temperature -22.0 Â°F | Injection Molded; ISO 179/1eA |
| | 2.20 J/cmÂ² @Temperature 23.0 Â°C | 10.5 ft-lb/inÂ² @Temperature 73.4 Â°F | Injection Molded; ISO 179/2 |
| | 3.70 J/cmÂ² @Temperature 23.0 Â°C | 17.6 ft-lb/inÂ² @Temperature 73.4 Â°F | Injection Molded; ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|---|---|---|---|
| Deflection Temperature at 1.8 MPa (264 psi) | 97.0 Â°C | 207 Â°F | Annealed; ISO 75-2/A |
| Vicat Softening Point | 97.0 Â°C | 207 Â°F | ISO 306/B50 |
| Flammability, UL94 | HB @Thickness 1.50 mm | HB @Thickness 0.0591 in | |
| | HB @Thickness 3.00 mm | HB @Thickness 0.118 in | |
| Flame Spread | 40.0 mm/min | 1.57 in/min | ISO 3795 |

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