

PlastxWorld CEVIAN® SER91 ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

General purpose and flame retarded ABS with excellent moldability and no plate-out. These are typical values and are not intended for specification purposes. UL approved file No. is E47773. Information provided by PlastxWorld Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PlastxWorld-CEVIAN-SER91-ABS.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|------------------|
| Density | 1.19 g/cc | 0.0430 lb/in ³ | ASTM D792 |
| Water Absorption | 0.30 % | 0.30 % | 24 hr; ASTM D570 |
| Linear Mold Shrinkage | 0.0040 - 0.0060 cm/cm | 0.0040 - 0.0060 in/in | ASTM D955 |
| Melt Flow | 7.0 g/10 min @Load 3.80 kg, Temperature 230 °C | 7.0 g/10 min @Load 8.38 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------------|--------------------------------------|-----------|
| Hardness, Rockwell R | 110 | 110 | ASTM D785 |
| Tensile Strength, Yield | 39.3 MPa | 5700 psi | ASTM 638 |
| Flexural Yield Strength | 68.9 MPa | 10000 psi | ASTM D790 |
| Flexural Modulus | 2.28 GPa | 330 ksi | ASTM D790 |
| Izod Impact, Notched | 1.28 J/cm @Thickness 3.17 mm | 2.40 ft-lb/in @Thickness 0.125 in | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------------------|--|---------------------|
| CTE, linear, Parallel to Flow | 91.8 µm/m-°C @Temperature 20.0 °C | 51.0 µin/in-°F @Temperature 68.0 °F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 90.0 °C | 194 °F | 0.5 inch; ASTM D648 |
| Vicat Softening Point | 100 °C | 212 °F | ASTM D1525 |
| Flammability, UL94 | V-0 @Thickness 1.50 mm | V-0 @Thickness 0.0591 in | |

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