

Styron CALIBRE[®],ç 7100-8 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

CALIBRE[®],ç 7100-8 glass-reinforced resin offers increased modulus and improved heat distortion resistance, with minimal shrinkage. It also offers outstanding UL-94 flammability ratings. CALIBRE[®],ç 7100-8 additive package: No mold release. Information provided by Dow
This product line was spun off from Dow Chemical to Styron in 2010.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styron-CALIBRE-7100-8-Polycarbonate.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---|---|-----------|
| Density | 1.27 g/cc | 0.0459 lb/in ³ | ISO 1183B |
| Linear Mold Shrinkage, Transverse | 0.0020 - 0.0050 cm/cm | 0.0020 - 0.0050 in/in | ISO 294-4 |
| Melt Flow | 8.0 g/10 min @Load 1.20 kg, Temperature 300 Â°C | 8.0 g/10 min @Load 2.65 lb, Temperature 572 Â°F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|----------------------|
| Tensile Strength, Ultimate | 58.0 MPa | 8410 psi | 50 mm/min; ISO 527-2 |
| Tensile Strength, Yield | 60.0 MPa | 8700 psi | 50 mm/min; ISO 527-2 |
| Elongation at Break | 6.0 % | 6.0 % | 50 mm/min; ISO 527-2 |
| Elongation at Yield | 4.0 % | 4.0 % | 50 mm/min; ISO 527-2 |
| Tensile Modulus | 3.50 GPa | 508 ksi | ISO 527 |
| Izod Impact, Notched | 1.10 J/cm | 2.06 ft-lb/in | ISO 180/A |
| Charpy Impact, Notched | 1.20 J/cm ² | 5.71 ft-lb/in ² | ISO 179/1eA |

| Thermal Properties | Metric | English | Comments |
|-----------------------------|---------------------------|-----------------------------|----------------------------|
| Vicat Softening Point | 150 Â°C | 302 Â°F | 50Â°C/hr, 50N; ISO 306-B50 |
| Flammability, UL94 | V-0 @Thickness 1.50 mm | V-0 @Thickness 0.0591 in | |
| | 5VA @Thickness 3.00 mm | 5VA @Thickness 0.118 in | |
| Ring & Ball Softening Point | >= 125 Â°C | >= 257 Â°F | IEC 60335-1 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------|---------|-----------|
| Comparative Tracking Index | 175 V | 175 V | IEC 60112 |

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