

Styron EMERGE[®],ç 7560 Polycarbonate (PC) / Acrylonitrile Butadiene Styrene (ABS)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate (PC)

Material Notes:

EMERGE[®],ç PC/ABS 7560 advanced resin is an ignition-resistant PC/ABS blend that contains no chlorine or bromine additives. This resin is suitable for use in a wide variety of applications in the information technology equipment market. 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-EMERGE-7560-Polycarbonate-PC-Acrylonitrile-Butadiene-Styrene-ABS.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|---------------------------------------|---------------------------------------|-----------|
| Bulk Density | 0.665 g/cc | 0.0240 lb/in ³ | ISO 60 |
| Density | 1.17 g/cc | 0.0423 lb/in ³ | ISO 1183B |
| Linear Mold Shrinkage | 0.0040 cm/cm | 0.0040 in/in | ISO 294-4 |
| Linear Mold Shrinkage, Transverse | 0.0070 cm/cm | 0.0070 in/in | ISO 294-4 |
| Melt Flow | 22 g/10 min | 22 g/10 min | ISO 1133 |
| | @Load 3.80 kg, Temperature 230 Å°C | @Load 8.38 lb, Temperature 446 Å°F | |
| | 100 g/10 min | 100 g/10 min | ISO 1133 |
| | @Load 5.00 kg, Temperature 260 Å°C | @Load 11.0 lb, Temperature 500 Å°F | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------------------|----------------------------|---------------------|
| Hardness, Rockwell R | 120 | 120 | ISO 2039/2 |
| Tensile Strength at Break | 45.0 MPa | 6530 psi | 50mm/min; ISO 527-2 |
| Tensile Strength, Yield | 60.0 MPa | 8700 psi | 50mm/min; ISO 527-2 |
| Elongation at Break | 50 % | 50 % | 50mm/min; ISO 527-2 |
| Elongation at Yield | 4.0 % | 4.0 % | 50mm/min; ISO 527-2 |
| Tensile Modulus | 2.55 GPa | 370 ksi | 1mm/min; ISO 527-2 |
| Flexural Strength | 98.0 MPa | 14200 psi | 2mm/min; ISO 178 |
| Flexural Modulus | 2.80 GPa | 406 ksi | 2mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 16.0 kJ/m ² | 7.61 ft-lb/in ² | ISO 180/A |
| Charpy Impact, Notched | 1.40 J/cm ² | 6.66 ft-lb/in ² | ISO 179/1eA |

| Mechanical Properties | Metric | English | Comments |
|---|--------------------|----------------------|----------------------------|
| Hot Ball Pressure Test | 90.0 Â°C | 194 Â°F | IEC 60335-1 |
| Deflection Temperature at 0.46 MPa (66 psi) | 94.0 Â°C | 201 Â°F | unannealed; ISO 75-B |
| Deflection Temperature at 1.8 MPa (264 psi) | 82.0 Â°C | 180 Â°F | unannealed; ISO 75-A |
| Vicat Softening Point | 100 Â°C | 212 Â°F | 50Â°C / 50N; ISO 306-B50 |
| | 108 Â°C | 226 Â°F | 120Â°C / 10N; ISO 306-A120 |
| Flammability, UL94 | V-0 | V-0 | all colors |
| | @Thickness 1.50 mm | @Thickness 0.0591 in | |
| Oxygen Index | 29 % | 29 % | ISO 4589-2 |
| Glow Wire Test | 925 Â°C | 1700 Â°F | (GWIT); IEC 60695-2-13 |
| | @Thickness 2.00 mm | @Thickness 0.0787 in | |
| | 960 Â°C | 1760 Â°F | (GWI); IEC 60695-2-12 |
| | @Thickness 2.00 mm | @Thickness 0.0787 in | |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------|---------------------|-----------|
| Comparative Tracking Index | >= 250 V | >= 250 V | IEC 60112 |
| | @Thickness 3.00 mm | @Thickness 0.118 in | |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------------|---------------|----------|
| Melt Temperature | 240 - 280 Â°C | 464 - 536 Â°F | |
| Mold Temperature | 40.0 - 80.0 Â°C | 104 - 176 Â°F | |
| Drying Temperature | 80.0 - 90.0 Â°C | 176 - 194 Â°F | |
| Dry Time | 4 hour | 4 hour | |

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