

Styron Pulse® A35-110 PC/ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

PULSE® A35-110 engineering resins give exceptional impact strength even at low temperatures and have high heat distortion temperature. The proprietary mass ABS technology of Dow allows these physical properties to be achieved together with superior flow performance, for easy molding of complex parts and design freedom. 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-Pulse-A35-110-PCABS.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|---------------------------|-------------|
| Density | 1.16 g/cc | 0.0419 lb/in ³ | ISO R1183 B |
| Water Absorption | 0.20 - 0.60 % | 0.20 - 0.60 % | ISO R 62 |
| Linear Mold Shrinkage | 0.0030 - 0.0070 cm/cm | 0.0030 - 0.0070 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--------------------------|----------------------------|--------------------------------|
| Ball Indentation Hardness | 105 MPa | 15200 psi | DIN 53459 |
| Tensile Strength at Break | 53.0 MPa | 7690 psi | 5 mm/min; ISO R 527 |
| Tensile Strength, Yield | 58.0 MPa | 8410 psi | 5 mm/min; ISO R 527 |
| Elongation at Break | >= 80 % | >= 80 % | 5 mm/min; ISO R 527 |
| Elongation at Yield | 5.0 % | 5.0 % | 5 mm/min; ISO R 527 |
| Tensile Modulus | 2.35 GPa | 341 ksi | 1 mm/min; ISO R 527 |
| Flexural Strength | 85.0 MPa | 12300 psi | 1 mm/min; ISO 178 |
| Flexural Modulus | 2.20 GPa | 319 ksi | 3 points and 1 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 50.0 kJ/m ² | 23.8 ft-lb/in ² | ISO R 180 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| Charpy Impact Unnotched | 70.0 kJ/m ² | 33.3 ft-lb/in ² | ISO R 180 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact Unnotched | NB | NB | ISO R 179 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| | NB | NB | |

| Mechanical Properties | Metric | English | Comments |
|------------------------|---------------------------|---------------------------|----------|
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |
| Charpy Impact, Notched | 1.50 J/cmÂ² | 7.14 ft-lb/inÂ² | ISO R179 |
| | @Temperature -40.0 Â°C | @Temperature -40.0 Â°F | |
| | 2.60 J/cmÂ² | 12.4 ft-lb/inÂ² | ISO R179 |
| | @Temperature 0.000 Â°C | @Temperature 32.0 Â°F | |
| | 3.50 J/cmÂ² | 16.7 ft-lb/inÂ² | ISO R179 |
| | @Temperature 23.0 Â°C | @Temperature 73.4 Â°F | |

| Thermal Properties | Metric | English | Comments |
|--|----------------------------------|--------------------------------|----------------------------|
| CTE, linear | 75.0 - 80.0 Âµm/m-Â°C | 41.7 - 44.4 Âµin/in-Â°F | ASTM D696 |
| | @Temperature 0.000 - 80.0 Â°C | @Temperature 32.0 - 176 Â°F | |
| Thermal Conductivity | 0.200 W/m-K | 1.39 BTU-in/hr-ftÂ²- Â°F | ASTM C177 |
| Deflection Temperature at 0.46 MPa (66 psi) | 130 Â°C | 266 Â°F | unannealed; ISO 75 B |
| Deflection Temperature at 1.8 MPa (264 psi) | 110 Â°C | 230 Â°F | unannealed; ISO 75 A |
| Vicat Softening Point | 132 Â°C | 270 Â°F | 50Â°C/hr, 5 kg; ISO 306 B |
| | 145 Â°C | 293 Â°F | 120Â°C/hr, 1 kg; ISO 306 A |
| Flammability, UL94 | HB | HB | |
| | @Thickness 1.60 mm | @Thickness 0.0630 in | |
| Oxygen Index | 21 % | 21 % | ASTM D2863 |

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