

SABIC Innovative Plastics Cycloy® C6600 PC+ABS

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

Material Notes:

Nonbrominated, nonchlorinated FR PC+ABS with balanced flow, impact and hydrolytic stability for a wide variety of applications including business equipment, monitors, enclosures, among others.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-C6600-PCABS.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--------------------------------------|--------------------------------------|--------------|
| Specific Gravity | 1.19 g/cc | 1.19 g/cc | ASTM D792 |
| Water Absorption | 0.11 % | 0.11 % | ASTM D570 |
| | @Time 86400 sec | @Time 24.0 hour | |
| Linear Mold Shrinkage, Flow | 0.0040 - 0.0060 cm/cm | 0.0040 - 0.0060 in/in | SABIC Method |
| | @Thickness 3.20 mm | @Thickness 0.126 in | |
| Melt Flow | 21.5 g/10 min | 21.5 g/10 min | ASTM D1238 |
| | @Load 2.16 kg, Temperature 260 °C | @Load 4.76 lb, Temperature 500 °F | |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------------------|-----------------------|-----------------------------------|
| Tensile Strength at Break | 49.0 MPa | 7110 psi | Type I, 50 mm/min; ASTM D638 |
| Tensile Strength, Yield | 63.0 MPa | 9140 psi | Type I, 50 mm/min; ASTM D638 |
| Elongation at Break | 80 % | 80 % | Type I, 50 mm/min; ASTM D638 |
| Elongation at Yield | 4.0 % | 4.0 % | Type I, 50 mm/min; ASTM D638 |
| Tensile Modulus | 3.00 GPa | 435 ksi | 50 mm/min; ASTM D638 |
| Flexural Yield Strength | 94.0 MPa | 13600 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus | 2.62 GPa | 380 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched | 5.50 J/cm | 10.3 ft-lb/in | ASTM D256 |
| Dart Drop, Total Energy | 51.0 J | 37.6 ft-lb | ASTM D3763 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| | 51.0 J | 37.6 ft-lb | ASTM D3763 |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |

| Thermal Properties | Metric | English | Comments |
|---|-------------------------------|-------------------------------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 98.0 °C @Thickness 6.40 mm | 208 °F @Thickness 0.252 in | unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 83.0 °C @Thickness 3.20 mm | 181 °F @Thickness 0.126 in | unannealed; ASTM D648 |
| | 90.0 °C @Thickness 6.40 mm | 194 °F @Thickness 0.252 in | unannealed; ASTM D648 |
| Vicat Softening Point | 99.0 °C | 210 °F | Rate B/50; ASTM D1525 |
| UL RTI, Electrical | 80.0 °C | 176 °F | UL 746B |
| UL RTI, Mechanical with Impact | 70.0 °C | 158 °F | UL 746B |
| UL RTI, Mechanical without Impact | 80.0 °C | 176 °F | UL 746B |
| Flammability, UL94 | V-2 @Thickness 0.750 mm | V-2 @Thickness 0.0295 in | UL 94 |
| | V-0 @Thickness 1.50 mm | V-0 @Thickness 0.0591 in | UL 94 |
| | 5VB @Thickness 2.00 mm | 5VB @Thickness 0.0787 in | UL 94 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-------------------------------------|-------------------------------------|---------------------|
| Volume Resistivity | $\geq 1.00e+15$ ohm-cm | $\geq 1.00e+15$ ohm-cm | IEC 60093 |
| Surface Resistance | $\geq 1.00e+15$ ohm | $\geq 1.00e+15$ ohm | ROA; IEC 60093 |
| Dielectric Constant | 2.7 @Frequency 1.00e+6 Hz | 2.7 @Frequency 1.00e+6 Hz | IEC 60250 |
| | 2.7 @Frequency 50.0 - 60.0 Hz | 2.7 @Frequency 50.0 - 60.0 Hz | IEC 60250 |
| Dielectric Strength | 17.0 kV/mm @Thickness 3.20 mm | 432 kV/in @Thickness 0.126 in | in oil; IEC 60243-1 |
| Dissipation Factor | 0.0040 @Frequency 50.0 - 60.0 Hz | 0.0040 @Frequency 50.0 - 60.0 Hz | IEC 60250 |

| Electrical Properties | 0.0050 Metric | 0.0050 English | Comments |
|-----------------------|--------------------------|--------------------------|-----------|
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | PEC-00250 |

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