

SABIC Innovative Plastics Cycloy® EHA PC+ABS (Asia Pacific)

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

Material Notes:

PC+ABS. Electroplateable.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-EHA-PCABS-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|---|--|--------------|
| Specific Gravity | 1.09 g/cc | 1.09 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0050 - 0.0080 cm/cm @Thickness 3.20 mm | 0.0050 - 0.0080 in/in @Thickness 0.126 in | SABIC Method |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-------------------------------------|--|-----------------------------------|
| Hardness, Rockwell R | 111 | 111 | ASTM D785 |
| Tensile Strength, Yield | 45.0 MPa | 6530 psi | Type I, 50 mm/min; ASTM D638 |
| Tensile Modulus | 2.41 GPa | 350 ksi | 50 mm/min; ASTM D638 |
| Flexural Yield Strength | 78.0 MPa | 11300 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus | 2.55 GPa | 370 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched | 3.68 J/cm | 6.89 ft-lb/in | ASTM D256 |
| | 0.640 J/cm @Temperature -30.0 °C | 1.20 ft-lb/in @Temperature -22.0 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|-----------------------------------|---|--|------------|
| CTE, linear, Parallel to Flow | 63.0 µm/m-°C @Temperature -40.0 - 40.0 °C | 35.0 µin/in-°F @Temperature -40.0 - 104 °F | ASTM E 831 |
| UL RTI, Electrical | 60.0 °C | 140 °F | UL 746B |
| UL RTI, Mechanical with Impact | 60.0 °C | 140 °F | UL 746B |
| UL RTI, Mechanical without Impact | 60.0 °C | 140 °F | UL 746B |
| Flammability, UL94 | HB @Thickness 1.47 mm | HB @Thickness 0.0579 in | UL 94 |

| Electrical Properties | Metric | English | Comments |
|--------------------------------------|-------------------|--------------------|---------------------|
| Arc Resistance | 60 - 120 sec | 60 - 120 sec | Tungsten; ASTM D495 |
| Comparative Tracking Index | >= 600 V | >= 600 V | UL 746A |
| Hot Wire Ignition, HWI | 15 - 30 sec | 15 - 30 sec | UL 746A |
| High Amp Arc Ignition, HAI | >= 120 arcs | >= 120 arcs | UL 746A |
| High Voltage Arc-Tracking Rate, HVTR | 80.0 - 150 mm/min | 3.15 - 5.91 in/min | UL 746A |

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