

SABIC Innovative Plastics Cycloy® RCY6214 PC+ABS (Asia Pacific)

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

Material Notes:

Cycloy* RCY6214 resin is an injection moldable PC/ABS blend with non-brominated and non-chlorinated flame retardant. It contains 35% post consumer recycle content with a UL-94 V0 rating @ 1.5 mm. Developed for wide variety of applications that require balanced flow and impact performance. Limited availability and restricted color only.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-RCY6214-PCABS-Asia-Pacific.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------------------------------|--------------------------------------|--------------|
| Specific Gravity | 1.18 g/cc | 1.18 g/cc | ASTM D792 |
| Water Absorption | 0.10 % | 0.10 % | 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 | |
| Linear Mold Shrinkage, Transverse | 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 g/10 min | 21 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 | 47.0 MPa | 6820 psi | Type I, 50 mm/min; ASTM D638 |
| Tensile Strength, Yield | 60.0 MPa | 8700 psi | Type I, 50 mm/min; ASTM D638 |
| Elongation at Break | 40 % | 40 % | Type I, 50 mm/min; ASTM D638 |
| Elongation at Yield | 4.0 % | 4.0 % | Type I, 50 mm/min; ASTM D638 |
| Tensile Modulus | 2.50 GPa | 363 ksi | 50 mm/min; ASTM D638 |
| Flexural Yield Strength | 90.0 MPa | 13100 psi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Flexural Modulus | 2.40 GPa | 348 ksi | 1.3 mm/min, 50 mm span; ASTM D790 |
| Izod Impact, Notched | 5.00 J/cm | 9.37 ft-lb/in | ASTM D256 |
| Izod Impact, Notched (ISO) | 51.0 kJ/m ² | 24.3 ft-lb/in ² | 80*10*3; ISO 180/1A |
| | 50.0 J | 36.9 ft-lb | |

| Dart Drop, Total Energy Mechanical Properties | Metric @ Temperature 23.0 °C | English @ Temperature 73.4 °F | ASTM D3763 Comments |
|--|--|---|--------------------------------|
| Thermal Properties | Metric | English | Comments |
| CTE, linear, Parallel to Flow | 71.0 µm/m-°C @Temperature -40.0 - 60.0 °C | 39.4 µin/in-°F @Temperature -40.0 - 140 °F | ASTM E 831 |
| CTE, linear, Transverse to Flow | 72.0 µm/m-°C @Temperature -40.0 - 60.0 °C | 40.0 µin/in-°F @Temperature -40.0 - 140 °F | ASTM E 831 |
| Deflection Temperature at 0.46 MPa (66 psi) | 101 °C @Thickness 6.40 mm | 214 °F @Thickness 0.252 in | unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 85.0 °C @Thickness 3.20 mm | 185 °F @Thickness 0.126 in | unannealed; ASTM D648 |
| | 92.0 °C @Thickness 6.40 mm | 198 °F @Thickness 0.252 in | unannealed; ASTM D648 |
| Vicat Softening Point | 100 °C | 212 °F | Rate B/50; ASTM D1525 |
| Flammability, UL94 | V-1 @Thickness 1.20 mm | V-1 @Thickness 0.0472 in | UL 94 |
| | V-0 @Thickness 1.50 mm | V-0 @Thickness 0.0591 in | UL 94 |

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