

## SABIC Innovative Plastics Cycloy® CY201 PC+ABS (Europe-Africa-Middle East)

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

### Material Notes:

Cycloy\* CY201 is an industrial quality PC+ABS Flame Retardant grade for injection moulding applications.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Cycloy-CY201-PCABS-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Cycloy-CY201-PCABS-Europe-Africa-Middle-East.php)

| Physical Properties         | Metric  | English   | Comments                                |
|-----------------------------|---|---|---|
| Density                     | 1.19 g/cc   | 0.0430 lb/in <sup>3</sup>                           | ISO 1183                                |
| Linear Mold Shrinkage, Flow | 0.0040 - 0.0060 cm/cm                               | 0.0040 - 0.0060 in/in                               | on Tensile Bar; SABIC Method            |
| Melt Index of Compound      | 20 g/10 min<br>@Load 2.16 kg,<br>Temperature 260 °C | 20 g/10 min<br>@Load 4.76 lb,<br>Temperature 500 °F | MVR [cm <sup>3</sup> /10 min]; ISO 1133 |

| Mechanical Properties      | Metric   | English   | Comments                           |
|----------------------------|--|---|------------------------------------|
| Tensile Strength at Break  | 45.0 MPa   | 6530 psi  | 50 mm/min; ISO 527                 |
| Tensile Strength, Yield    | 60.0 MPa   | 8700 psi  | 50 mm/min; ISO 527                 |
| Elongation at Yield        | 3.0 %  | 3.0 %   | 50 mm/min; ISO 527                 |
| Tensile Modulus            | 2.50 GPa   | 363 ksi   | 1 mm/min; ISO 527                  |
| Flexural Yield Strength    | 85.0 MPa   | 12300 psi   | 2 mm/min; ISO 178                  |
| Flexural Modulus           | 2.50 GPa   | 363 ksi   | 2 mm/min; ISO 178                  |
| Izod Impact, Notched (ISO) | 6.00 kJ/m <sup>2</sup>                           | 2.86 ft-lb/in <sup>2</sup>                          | 80*10*4; ISO 180/1A                |
|                            | 4.00 kJ/m <sup>2</sup><br>@Temperature -30.0 °C  | 1.90 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F | 80*10*4; ISO 180/1A                |
| Charpy Impact, Notched     | 0.600 J/cm <sup>2</sup>                          | 2.86 ft-lb/in <sup>2</sup>                          | Edgew 80*10*4 sp=62mm; ISO 179/1eA |
|                            | 0.400 J/cm <sup>2</sup><br>@Temperature -30.0 °C | 1.90 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F | Edgew 80*10*4 sp=62mm; ISO 179/1eA |

| Thermal Properties                          | Metric  | English | Comments                           |
|---|---------|---------|------------------------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 90.0 °C | 194 °F  | Edgew 120*10*4 sp=100mm; ISO 75/Be |
| Deflection Temperature at 1.8 MPa           | 80.0 °C | 176 °F  | Edgew 120*10*4 sp=100mm; ISO       |

| <sup>(264 psi)</sup><br>Thermal Properties | Metric             | English              | <sup>75/Ae</sup><br>Comments |
|--|--------------------|----------------------|------------------------------|
| Vicat Softening Point                      | 95.0 °C            | 203 °F               | Rate B/120; ISO 306          |
| Flammability, UL94                         | V-1                | V-1                  | UL 94                        |
|  | @Thickness 1.50 mm | @Thickness 0.0591 in |                              |
| Glow Wire Test                             | V-0                | V-0                  | UL 94                        |
|  | @Thickness 2.00 mm | @Thickness 0.0787 in |                              |
| Glow Wire Test                             | 960 °C             | 1760 °F              | IEC 60695-2-12               |
|  | @Thickness 3.20 mm | @Thickness 0.126 in  |                              |

| Descriptive Properties           | Value  | Comments       |
|----------------------------------|--------|----------------|
| Ball Pressure Test, 75°C +/- 2°C | PASSES | IEC 60695-10-2 |

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