

## Toyobo VYLOPET® CA5310 PC/PBT Polymer Alloy, High Rigidity, Impact Resistant

**Category :** Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

### Material Notes:

**Applications:** Lamp partsHome electric appliance parts**Features:** Fine appearanceHigh rigidityImpact resistant**Information provided by** Toyobo.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Toyobo-VYLOPET-CA5310-PCPBT-Polymer-Alloy-High-Rigidity-Impact-Resistant.php](http://www.lookpolymers.com/polymer_Toyobo-VYLOPET-CA5310-PCPBT-Polymer-Alloy-High-Rigidity-Impact-Resistant.php)

| Physical Properties               | Metric                             | English                             | Comments                  |
|-----------------------------------|------------------------------------|-------------------------------------|---------------------------|
| Density                           | 1.29 g/cc                          | 0.0466 lb/in <sup>3</sup>           | ASTM D792                 |
| Water Absorption                  | 0.20 %                             | 0.20 %                              | 24 hrs at 23°C; ASTM D570 |
| Linear Mold Shrinkage, Flow       | 0.0050 cm/cm<br>@Thickness 3.00 mm | 0.0050 in/in<br>@Thickness 0.118 in | MD                        |
| Linear Mold Shrinkage, Transverse | 0.0060 cm/cm<br>@Thickness 3.00 mm | 0.0060 in/in<br>@Thickness 0.118 in |                           |

| Mechanical Properties     | Metric     | English        | Comments  |
|---------------------------|------------|----------------|-----------|
| Tensile Strength at Break | 87.0 MPa   | 12600 psi      | ASTM D638 |
| Elongation at Break       | 6.0 %      | 6.0 %          | ASTM D638 |
| Flexural Strength         | 136 MPa    | 19700 psi      | ASTM D790 |
| Flexural Modulus          | 4.00 GPa   | 580 ksi        | ASTM D790 |
| Izod Impact, Notched      | 0.520 J/cm | 0.974 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric | English | Comments  |
|---------------------------------------------|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 128 °C | 262 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 120 °C | 248 °F  | ASTM D648 |
| Flammability, UL94                          | HB     | HB      |           |

| Electrical Properties | Metric          | English         | Comments  |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity    | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |

| Processing Properties  | Metric  | English | Comments            |
|------------------------|---------|---------|---------------------|
| Processing Temperature | 270 °C  | 518 °F  | Molding temperature |
| Mold Temperature       | 70.0 °C | 158 °F  |                     |
| Drying Temperature     | 130 °C  | 266 °F  |                     |
| Dry Time               | 3 hour  | 3 hour  |                     |

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