

## Eurotec® Tecotek® PC43 GR003 TD70 PC, unfilled, flame retardant - halogen (RoHS compliant), impact modified, light grey

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified , Polycarbonate, Unreinforced, Flame Retardant

### Material Notes:

Information provided by Eurotec®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurotec-Tecotek-PC43-GR003-TD70-PC-unfilled-flame-retardant-halogen-RoHS-compliant-impact-modified-light-grey.php](http://www.lookpolymers.com/polymer_Eurotec-Tecotek-PC43-GR003-TD70-PC-unfilled-flame-retardant-halogen-RoHS-compliant-impact-modified-light-grey.php)

| Physical Properties               | Metric                          | English                         | Comments        |
|-----------------------------------|---------------------------------|---------------------------------|-----------------|
| Density                           | 1.22 g/cc                       | 0.0441 lb/in <sup>3</sup>       | ISO 1183        |
| Moisture Absorption               | 0.200 %<br>@Temperature 23.0 °C | 0.200 %<br>@Temperature 73.4 °F | 50% RH; ISO 960 |
| Linear Mold Shrinkage, Flow       | 0.0060 cm/cm                    | 0.0060 in/in                    | Eurotec         |
| Linear Mold Shrinkage, Transverse | 0.0060 cm/cm                    | 0.0060 in/in                    | Eurotec         |

| Mechanical Properties        | Metric  | English   | Comments   |
|------------------------------|---|---|------------|
| Tensile Strength at Break    | 60.0 MPa  | 8700 psi  | ISO 527    |
| Elongation at Break          | >= 20 %   | >= 20 %   | ISO 527    |
| Tensile Modulus              | 0.225 GPa                                       | 32.6 ksi  | ISO 527    |
| Izod Impact, Notched (ISO)   | 15.0 kJ/m <sup>2</sup><br>@Temperature -30.0 °C | 7.14 ft-lb/in <sup>2</sup><br>@Temperature -22.0 °F | ISO 180/1A |
|                              | 35.0 kJ/m <sup>2</sup><br>@Temperature 23.0 °C  | 16.7 ft-lb/in <sup>2</sup><br>@Temperature 73.4 °F  | ISO 180/1A |
| Izod Impact, Unnotched (ISO) | NB<br>@Temperature 23.0 °C                      | NB<br>@Temperature 73.4 °F                          | ISO 180/1U |
|                              | NB<br>@Temperature -30.0 °C                     | NB<br>@Temperature -22.0 °F                         | ISO 180/1U |

| Thermal Properties                          | Metric  | English | Comments |
|---|---------|---------|----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 105 °C  | 221 °F  | ISO 75   |
| Deflection Temperature at 1.8 MPa (264 psi) | 95.0 °C | 203 °F  | ISO 75   |

| Thermal Properties | 130 °C<br>Metric    | 266 °F<br>English    | Comments        |
|--------------------|---------------------|----------------------|-----------------|
|                    | @Load 5.10 kg       | @Load 11.2 lb        |                 |
| Flammability, UL94 | V-0                 | V-0                  |                 |
|                    | @Thickness 0.750 mm | @Thickness 0.0295 in |                 |
| Glow Wire Test     | V-0                 | V-0                  |                 |
|                    | @Thickness 1.60 mm  | @Thickness 0.0630 in |                 |
| Glow Wire Test     | 875 °C              | 1610 °F              | GWIT; IEC 60695 |
|                    | @Thickness 2.00 mm  | @Thickness 0.0787 in |                 |
| Glow Wire Test     | 960 °C              | 1760 °F              | GWFI; IEC 60695 |
|                    | @Thickness 2.00 mm  | @Thickness 0.0787 in |                 |

| Electrical Properties      | Metric          | English         | Comments              |
|----------------------------|-----------------|-----------------|-----------------------|
| Volume Resistivity         | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | IEC 60093             |
| Surface Resistance         | 1.00e+15 ohm    | 1.00e+15 ohm    | IEC 60093             |
| Comparative Tracking Index | 225 V           | 225 V           | Solution A; IEC 60112 |

| Processing Properties  | Metric           | English          | Comments |
|------------------------|------------------|------------------|----------|
| Processing Temperature | 250 - 290 °C     | 482 - 554 °F     |          |
| Feed Temperature       | 60.0 - 80.0 °C   | 140 - 176 °F     | Throat   |
| Mold Temperature       | 80.0 - 100 °C    | 176 - 212 °F     |          |
| Drying Temperature     | 120 °C           | 248 °F           |          |
| Dry Time               | 3.00 - 4.00 hour | 3.00 - 4.00 hour |          |
| Moisture Content       | <= 0.10 %        | <= 0.10 %        | ISO 960  |
| Hold Pressure          | 60.0 - 120 MPa   | 8700 - 17400 psi |          |

| Descriptive Properties | Value         | Comments |
|------------------------|---------------|----------|
| Back Pressure          | Low           |          |
| Injection Speed        | Medium - Fast |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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