

## Covestro Bayblend® KL 1-1430 Polycarbonate/ABS Blend

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

### Material Notes:

Standard grade for cars. Information provided by Bayer. As of 1 September 2015, Bayer Material Science was separated from Bayer AG and officially adopted its new name – Covestro.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Covestro-Bayblend-KL-1-1430-PolycarbonateABS-Blend.php](http://www.lookpolymers.com/polymer_Covestro-Bayblend-KL-1-1430-PolycarbonateABS-Blend.php)

| Physical Properties                | Metric                                              | English                                             | Comments              |
|------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------|
| Density                            | 1.12 g/cc                                           | 0.0405 lb/in³                                       |                       |
| Water Absorption                   | 0.70 %                                              | 0.70 %                                              | Saturation in water   |
| Moisture Absorption at Equilibrium | 0.20 %                                              | 0.20 %                                              | Equilibrium at 50% RH |
| Water Absorption at Saturation     | 0.70 %                                              | 0.70 %                                              |                       |
| Melt Flow                          | 12 g/10 min<br>@Load 5.00 kg,<br>Temperature 260 °C | 12 g/10 min<br>@Load 11.0 lb,<br>Temperature 500 °F |                       |

| Mechanical Properties   | Metric   | English  | Comments |
|-------------------------|----------|----------|----------|
| Tensile Strength, Yield | 54.0 MPa | 7830 psi |          |
| Elongation at Break     | >= 50 %  | >= 50 %  | Nominal  |
| Elongation at Yield     | 4.0 %    | 4.0 %    |          |
| Tensile Modulus         | 2.20 GPa | 319 ksi  |          |

| Thermal Properties                          | Metric                               | English                                | Comments |
|---------------------------------------------|--------------------------------------|----------------------------------------|----------|
| CTE, linear, Parallel to Flow               | 82.5 µm/m-°C<br>@Temperature 20.0 °C | 45.8 µin/in-°F<br>@Temperature 68.0 °F |          |
| CTE, linear, Transverse to Flow             | 85.0 µm/m-°C<br>@Temperature 20.0 °C | 47.2 µin/in-°F<br>@Temperature 68.0 °F |          |
| Deflection Temperature at 0.46 MPa (66 psi) | 118 °C                               | 244 °F                                 |          |
| Deflection Temperature at 1.8 MPa (264 psi) | 100 °C                               | 212 °F                                 |          |
| Vicat Softening Point                       | 114 °C                               | 237 °F                                 |          |
|                                             | HB                                   | HB                                     |          |

| Thermal Properties | Metric<br>@ Thickness 1.60 mm | English<br>@ Thickness 0.0630 in | Comments |
|--------------------|-------------------------------|----------------------------------|----------|
| Oxygen Index       | 22 %                          | 22 %                             |          |

| Electrical Properties      | Metric                            | English                           | Comments |
|----------------------------|-----------------------------------|-----------------------------------|----------|
| Electrical Resistivity     | $\geq 1.00 \times 10^{15}$ ohm-cm | $\geq 1.00 \times 10^{15}$ ohm-cm |          |
| Surface Resistance         | $1.00 \times 10^{14}$ ohm         | $1.00 \times 10^{14}$ ohm         |          |
| Dielectric Constant        | 2.0                               | 2.0                               |          |
|                            | @Frequency 100 Hz                 | @Frequency 100 Hz                 |          |
|                            | 2.9                               | 2.9                               |          |
|                            | @Frequency 1e+6 Hz                | @Frequency 1e+6 Hz                |          |
| Dielectric Strength        | 24.0 kV/mm                        | 610 kV/in                         |          |
| Dissipation Factor         | 0.0040                            | 0.0040                            |          |
|                            | @Frequency 100 Hz                 | @Frequency 100 Hz                 |          |
|                            | 0.0070                            | 0.0070                            |          |
|                            | @Frequency 1e+6 Hz                | @Frequency 1e+6 Hz                |          |
| Comparative Tracking Index | 300 V                             | 300 V                             |          |

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