

## Cossa Polimeri ESTABLEND 4501 V0/D Flame Retardant PC - ABS

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

### Material Notes:

PC - ABS Blend Flame retardant class V0, PBDE and antimony free, with halogens, high impact resistance, very high thermal resistance, high gloss, good processability Information provided by Cossa Polimeri S.r.l.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Cossa-Polimeri-ESTABLEND-4501-V0D-Flame-Retardant-PC-ABS.php](http://www.lookpolymers.com/polymer_Cossa-Polimeri-ESTABLEND-4501-V0D-Flame-Retardant-PC-ABS.php)

| Physical Properties   | Metric                                              | English                                             | Comments    |
|-----------------------|-----------------------------------------------------|-----------------------------------------------------|-------------|
| Density               | 1.27 g/cc                                           | 0.0459 lb/in <sup>3</sup>                           | ASTM D 792  |
| Linear Mold Shrinkage | 0.0050 - 0.0070 cm/cm                               | 0.0050 - 0.0070 in/in                               | ASTM D 955  |
| Melt Flow             | 28 g/10 min<br>@Load 5.00 kg,<br>Temperature 260 °C | 28 g/10 min<br>@Load 11.0 lb,<br>Temperature 500 °F | ASTM D 1238 |

| Mechanical Properties     | Metric                             | English                               | Comments   |
|---------------------------|------------------------------------|---------------------------------------|------------|
| Tensile Strength at Break | 55.0 MPa                           | 7980 psi                              | ASTM D 638 |
| Tensile Strength, Yield   | 63.0 MPa                           | 9140 psi                              | ASTM D 638 |
| Elongation at Break       | >= 50 %                            | >= 50 %                               | ASTM D 638 |
| Flexural Modulus          | 2.50 GPa                           | 363 ksi                               | ASTM D 790 |
| Izod Impact, Notched      | 5.00 J/cm<br>@Temperature 0.000 °C | 9.37 ft-lb/in<br>@Temperature 32.0 °F | ASTM D 638 |
|                           | 5.50 J/cm<br>@Temperature 23.0 °C  | 10.3 ft-lb/in<br>@Temperature 73.4 °F | ASTM D 256 |

| Thermal Properties     | Metric                    | English                     | Comments             |
|------------------------|---------------------------|-----------------------------|----------------------|
| Hot Ball Pressure Test | 125 °C                    | 257 °F                      | I.E.C. 335-1         |
| Vicat Softening Point  | 144 °C<br>@Load 5.00 kg   | 291 °F<br>@Load 11.0 lb     | 50°C/hr; ASTM D 1525 |
|                        | 148 °C<br>@Load 0.999 kg  | 298 °F<br>@Load 2.20 lb     | 50°C/hr; ASTM D 1525 |
| Flammability, UL94     | V-0<br>@Thickness 1.60 mm | V-0<br>@Thickness 0.0630 in |                      |

| Thermal Properties | <sup>V-0</sup><br>Metric | <sup>V-0</sup><br>English | Comments       |
|--------------------|--------------------------|---------------------------|----------------|
|                    | @Thickness 3.20 mm       | @Thickness 0.126 in       |                |
| Glow Wire Test     | 960 °C                   | 1760 °F                   | I.E.C. 695-2-1 |

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