



# Makrolon® ET UV510

## Grades / Extrusion

PC/UV absorber concentrate; high viscosity; easy release; very low plate-out; special grade for the coextrusion of Makrolon ET base resins; available in color code 550054 only; solid sheet; multi wall sheets / profiles

## ISO Shortname

| Property                                        | Test Condition | Unit       | Standard    | typical Value |
|-------------------------------------------------|----------------|------------|-------------|---------------|
| <b>Rheological properties</b>                   |                |            |             |               |
| C Melt volume-flow rate                         | 300 °C; 1.2 kg | cm³/10 min | ISO 1133    | 8.0           |
| <b>Mechanical properties (23 °C/50 % r. h.)</b> |                |            |             |               |
| C Charpy impact strength                        | 23 °C          | kJ/m²      | ISO 179-1eU | N             |
| <b>Thermal properties</b>                       |                |            |             |               |
| C Temperature of deflection under load          | 1.80 MPa       | °C         | ISO 75-1,-2 | 125           |
| C Temperature of deflection under load          | 0.45 MPa       | °C         | ISO 75-1,-2 | 138           |
| C Vicat softening temperature                   | 50 N; 50 °C/h  | °C         | ISO 306     | 144           |
| C Burning behavior UL 94                        | 0.36 mm        | Class      | UL 94       | V-2           |
| <b>Electrical properties (23 °C/50 % r. h.)</b> |                |            |             |               |
| C Volume resistivity                            |                | Ohm·m      | IEC 60093   | 1E14          |
| C Surface resistivity                           |                | Ohm        | IEC 60093   | 1E16          |
| <b>Other properties (23 °C)</b>                 |                |            |             |               |
| C Density                                       |                | kg/m³      | ISO 1183-1  | 1190          |
| <b>Processing conditions for test specimens</b> |                |            |             |               |
| C Injection molding-Melt temperature            |                | °C         | ISO 294     | 300           |
| C Injection molding-Mold temperature            |                | °C         | ISO 294     | 80            |
| C Injection molding-Injection velocity          |                | mm/s       | ISO 294     | 200           |

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

Impact properties: N = non-break, P = partial break, C = complete break

