

# Makrolon® XT5010

Polycarbonate

Covestro - Polycarbonates

## Message:

MVR (300 °C/1.2 kg) 34 cm<sup>3</sup>/10 min; easy processing; low viscosity; easy release; vicat softening temperature 50 N; 50 °C/h = 110 °C; injection molding - melt temperature 240 - 280 °C; available in transparent colors only; LCD tv frame

| General Information |                     |  |  |
|---------------------|---------------------|--|--|
| UL YellowCard       | E41613-100628103    |  |  |
| Features            | Good Mold Release   |  |  |
|                     | Good Processability |  |  |
|                     | Low Viscosity       |  |  |
| RoHS Compliance     | RoHS Compliant      |  |  |
| Appearance          | Clear/Transparent   |  |  |
|                     | Colors Available    |  |  |

| Physical                                   | Nominal Value | Unit                   | Test Method |
|--------------------------------------------|---------------|------------------------|-------------|
| Density (23°C)                             | 1.21          | g/cm <sup>3</sup>      | ISO 1183    |
| Melt Volume-Flow Rate (MVR) (300°C/1.2 kg) | 34.0          | cm <sup>3</sup> /10min | ISO 1133    |

| Mechanical                             | Nominal Value | Unit | Test Method  |
|----------------------------------------|---------------|------|--------------|
| Tensile Modulus (23°C)                 | 2700          | MPa  | ISO 527-2/1  |
| Tensile Stress                         |               |      | ISO 527-2/50 |
| Yield, 23°C                            | 75.0          | MPa  |              |
| Break, 23°C                            | 60.0          | MPa  |              |
| Tensile Strain                         |               |      | ISO 527-2/50 |
| Yield, 23°C                            | 5.0           | %    |              |
| Break, 23°C                            | 90            | %    |              |
| Nominal Tensile Strain at Break (23°C) | > 50          | %    | ISO 527-2/50 |

| Impact                           | Nominal Value | Unit              | Test Method |
|----------------------------------|---------------|-------------------|-------------|
| Charpy Unnotched Impact Strength |               |                   | ISO 179/1eU |
| -30°C                            | No Break      |                   |             |
| 23°C, Complete Break             | 220           | kJ/m <sup>2</sup> |             |

| Thermal                     | Nominal Value | Unit | Test Method  |
|-----------------------------|---------------|------|--------------|
| Vicat Softening Temperature |               |      |              |
| --                          | 112           | °C   | ISO 306/B50  |
| --                          | 114           | °C   | ISO 306/B120 |
| RTI Elec (1.50 mm)          | 80.0          | °C   | UL 746       |
| RTI Imp (1.50 mm)           | 80.0          | °C   | UL 746       |
| RTI Str (1.50 mm)           | 80.0          | °C   | UL 746       |

| Flammability                    | Nominal Value | Unit | Test Method    |
|---------------------------------|---------------|------|----------------|
| Flame Rating (0.750 to 3.00 mm) | V-2           |      | UL 94          |
| Glow Wire Flammability Index    |               |      | IEC 60695-2-12 |
| 0.750 mm                        | 960           | °C   |                |
| 1.50 mm                         | 960           | °C   |                |
| 3.00 mm                         | 960           | °C   |                |
| Glow Wire Ignition Temperature  |               |      | IEC 60695-2-13 |
| 0.750 mm                        | 800           | °C   |                |
| 1.50 mm                         | 825           | °C   |                |
| 3.00 mm                         | 850           | °C   |                |

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