



# Makrolon® XT5010 PC

Covestro Deutschland AG

- 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
- LCD tv frame

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	34	cm <sup>3</sup> /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2700	MPa	ISO 527
Yield stress	75	MPa	ISO 527
Yield strain	5	%	ISO 527
Nominal strain at break	>50	%	ISO 527
Impact Strength (Charpy), +23°C	220	kJ/m²	ISO 179/1eU
Impact Strength (Charpy), -30°C	no break	kJ/m²	ISO 179/1eU

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Vicat softening temperature, 50°C/h 50N	112	°C	ISO 306
Burning Behav. at thickness h	V-2	class	UL 94

Other Properties	Value	Unit	Test Standard
ISO Data			
Density	1210	kg/m³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	260	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	90	°C	-
Pre-drying - Time	2 - 3	h	-
Processing humidity	≤0.02	%	-
Melt temperature	240 - 280	°C	-
Mold temperature	80 - 100	°C	-

### Characteristics

Processing
Injection Molding

Additives Release agent

**Delivery form** 

**Special Characteristics** 

Pellets

Transparent

## **Injection Molding**

**PREPROCESSING** 

Max. Water content: 0.01 - 0.02 % Drying temperature: 90 °C

Drying time:

Circulating air drying oven (50 % fresh air) 4-8 h Fresh air dryer (high speed dryer) 2-4 h

Dry air dryer 2-3 h

**PROCESSING** 

Melt temperature: 240-280 °C Mold temperature: 80-100 °C

Use open nozzle.

#### Disclaimer

#### Liability Exclusion

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