

# Makrolon® RW6267 X

## Grades / Special grades

MVR (300 °C/1.2 kg) 19 cm<sup>3</sup>/10 min; low viscosity; easy release; UV stabilized; flame retardant; variable content of filler for high reflectance application; injection molding

## ISO Shortname

Property	Test Condition	Unit	Standard	typical Value
<b>Rheological properties</b>				
Melt volume-flow rate	300 °C; 1.2 kg	cm <sup>3</sup> /10 min	ISO 1133	19
<b>Mechanical properties (23 °C/50 % r. h.)</b>				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2500 - 2700
Yield stress	5 mm/min	MPa	ISO 527-1,-2	60
Yield strain	5 mm/min	%	ISO 527-1,-2	5.5
Nominal strain at break	5 mm/min	%	ISO 527-1,-2	50 - 60
C Stress at break	5 mm/min	MPa	ISO 527-1,-2	50 - 60
C Strain at break	5 mm/min	%	ISO 527-1,-2	80 - 110
C Charpy impact strength	23 °C	kJ/m <sup>2</sup>	ISO 179-1eU	N
Izod notched impact strength	23 °C	kJ/m <sup>2</sup>	ISO 7391/b.o. ISO 180-A	15 (C)
C Puncture maximum force	23 °C	N	ISO 6603-2	4700 - 5000
C Puncture energy	23 °C	J	ISO 6603-2	40 - 47
<b>Thermal properties</b>				
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	140 - 143
C Burning behavior UL 94 (1.5 mm)		Class	UL 94	V-0
Relative temperature index (Tensile strength)	1.5 mm	°C	UL 746B	125
Relative temperature index (Tensile impact strength)	1.5 mm	°C	UL 746B	115
Relative temperature index (Electric strength)	1.5 mm	°C	UL 746B	125
<b>Other properties (23 °C)</b>				
C Density		kg/m <sup>3</sup>	ISO 1183-1	1240 - 1340
<b>Material specific properties</b>				
Light reflection	4 mm	%	JIS 8722	96 - 97
<b>Processing conditions for test specimens</b>				
C Injection molding-Melt temperature		°C	ISO 294	280
C Injection molding-Mold temperature		°C	ISO 294	80

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



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## Disclaimer

### Typical value

These values are typical values only. Unless explicitly agreed in written form, they do not constitute a binding material specification or warranted values. Values may be affected by the design of the mold/die, the processing conditions and coloring/pigmentation of the product. Unless specified to the contrary, the property values given have been established on standardized test specimens at room temperature.

### General

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### Disclaimer Non Medical Grade

This product is not designated for the manufacture of a medical device or of intermediate products for medical devices (1). [This product is also not designated for Food Contact (2), including drinking water, or cosmetic applications. If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, for Food Contact products or cosmetic applications Covestro must be contacted in advance to provide its agreement to sell such product for such purpose.] Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices, for Food Contact products or cosmetic applications must be made solely by the purchaser of the product without relying upon any representations by Covestro. 1) Please see the "Guidance on Use of Covestro Products in a Medical Application" document. 2) As defined in Commission Regulation (EU) 1935/2004.

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