

Makrolon® RW6265 X

Grades / Special grades

MVR (300 °C/1.2 kg) 19 cm³/10 min; low viscosity; easy release; flame retardant; variable content of filler for high reflectance application; injection molding

ISO Shortname

Property	Test Condition	Unit	Standard	typical Value
Rheological properties				
Melt volume-flow rate	300 °C; 1.2 kg	cm³/10 min	ISO 1133	19
Mechanical properties (23 °C/50 % r. h.)				
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
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/m²	ISO 179-1eU	N
Izod notched impact strength	23 °C	kJ/m²	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
Thermal properties				
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	140 - 143
C Burning behavior UL 94 (1.5 mm) [UL recognition]		Class	UL 94	V-0 (WT)
Relative temperature index (Tensile strength) [UL recognition]	1.5 mm	°C	UL 746B	125
Relative temperature index (Tensile impact strength) [UL recognition]	1.5 mm	°C	UL 746B	115
Relative temperature index (Electric strength) [UL recognition]	1.5 mm	°C	UL 746B	125
Other properties (23 °C)				
C Density		kg/m³	ISO 1183-1	1240 - 1340
Material specific properties				
Light reflection	4 mm	%	JIS 8722	96 - 97
Processing conditions for test specimens				
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

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Covestro. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent. With respect to health, safety and environment precautions, the relevant Material Safety Data Sheets (MSDS) and product labels must be observed prior to working with our products.

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.

Covestro AG

Polycarbonates Business Unit

Kaiser-Wilhelm-Allee 60

51373 Leverkusen

Germany

plastics@covestro.com

www.plastics.covestro.com

