

Makroblend® UT5205

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(PC+PBT)-blend, impact modified, easy release, injection molding grade. Makroblend UT5205 offers an exceptional low-temperature impact strength, good flowability and excellent chemical resistance. Suitable for metal insert molding.

ISO Shortname

Test Condition	Unit	Standard	typical Value
260 °C; 5 kg	cm³/10 min	ISO 1133	21
Value range based on general practical experience (600bar)	%	b.o. ISO 2577	0.7 - 0.9
Value range based on general practical experience (1h; 90°C)	%	b.o. ISO 2577	0.1 - 0.2
•	v	"	,
1 mm/min	MPa	ISO 527-1,-2	2000
50 mm/min	MPa	ISO 527-1,-2	55
50 mm/min	%	ISO 527-1,-2	4.5
50 mm/min	%	ISO 527-1,-2	> 50
50 mm/min	MPa	ISO 527-1,-2	45
2 mm/min	MPa	ISO 178	2000
2 mm/min	MPa	ISO 178	65
23 °C	kJ/m²	ISO 180-A	60
-20 °C	kJ/m²	ISO 180-A	45
,	v	"	,
1.80 MPa	°C	ISO 75-1,-2	75
0.45 MPa	°C	ISO 75-1,-2	100
50 N; 120 °C/h	°C	ISO 306	122
23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.9
23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.9
·		,	
100 Hz	-	IEC 60250	3.2
1 MHz	-	IEC 60250	3.1
100 Hz	10 ⁻⁴	IEC 60250	30
1 MHz	10 ⁻⁴	IEC 60250	150
	Ohm-m	IEC 60093	>1E14
	Ohm	IEC 60093	>1E15
Solution A	Rating	IEC 60112	225
Solution B	Rating	IEC 60112	100
,			
	kg/m³	ISO 1183-1	1220
J.		J	J
	l°C	ISO 294	260
-	°C	ISO 294	70
	mm/s	ISO 294	200
	260 °C; 5 kg Value range based on general practical experience (600bar) Value range based on general practical experience (1h; 90°C) 1 mm/min 50 mm/min 50 mm/min 50 mm/min 2 mm/min 2 mm/min 2 a mm/min 2 mm/c 3 °C -20 °C 1.80 MPa 0.45 MPa 50 N; 120 °C/h 23 to 55 °C 23 to 55 °C 100 Hz 1 MHz 1 MHz 1 MHz Solution A	260 °C; 5 kg	260 °C; 5 kg

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, <math>C = complete break





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Disclaimer

Typical value

These values are typical values only. Unless explicitly agreed in written form, the 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.

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