

Makrolon® T4005

Preliminary Product Description*

Standard grades

Polycarbonate (PC), injection molding, medium viscosity, non-reinforced, For: Housing, Information technology,

Property	Test Condition	Unit	Standard	Typical Value**
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Rheological Properties

Melt volume-flow rate (MVR)	300 °C / 1.2 kg	cm ³ /10 min	ISO 1133	12
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Mechanical properties (23 °C, 50 % r. F.)

Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2030
Yield stress	5 mm/min	MPa	ISO 527-1,-2	56
Yield strain	5 mm/min	%	ISO 527-1,-2	6.0
Stress at break	5 mm/min	MPa	ISO 527-1,-2	67
Strain at break	5 mm/min	%	ISO 527-1,-2	120
Izod notched impact strength	23 °C; 3 mm	kJ/m ²	ISO 7391	60
Izod notched impact strength	-20 °C; 3 mm	kJ/m ²	ISO 7391	53

Thermal properties

Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	142
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Processing conditions

Drying temperature		°C		120
Drying time (fresh air dryer / high speed dryer)		h		3~4

Disclaimer

* This is a product at a developmental stage. Further information, including amended or supplementary data on hazards associated with its use, may be compiled in the future. For this reason, no assurances are given as to type conformity, processability, long-term performance characteristics or other production or application parameters. Therefore, you use the product entirely at your own risk without having been given any warranty or guarantee and agree that we shall not be liable for any damage, of whatever nature, arising out of such use.

** 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.

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 and information to determine to your own satisfaction whether they 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 us.

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