



Makroblend® UT403

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(PC+PET) blend, unreinforced; UV-stabilized; impact modified; high flow; injection molding grade. Good impact strength, dimensional stability and chemical resistance. UL746C f1 rated.

ISO Shortname

Property	Test Condition	Unit	Standard	typical Value
Rheological properties				
C Melt volume-flow rate	270 °C; 5 kg	cm³/10 min	ISO 1133	34
C Molding shrinkage, parallel/normal	Value range based on general practical experience (600bar)	%	b.o. ISO 2577	0.6 - 0.8
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2400
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	58
C Yield strain	50 mm/min	%	ISO 527-1,-2	5.0
C Nominal strain at break	50 mm/min	%	ISO 527-1,-2	100
C Stress at break	50 mm/min	MPa	ISO 527-1,-2	58
C Flexural modulus	2 mm/min	MPa	ISO 178	2300
C Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178	72
C Flexural strength	2 mm/min	MPa	ISO 178	86
C Izod notched impact strength	23 °C; 3 mm	kJ/m²	ISO 7391/b.o. ISO 180-A	70
C Izod notched impact strength	-30 °C; 3 mm	kJ/m²	ISO 7391/b.o. ISO 180-A	20
Thermal properties				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	98
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	124
C Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	139
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10⁻⁴/K	ISO 11359-1,-2	0.7
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10⁻⁴/K	ISO 11359-1,-2	0.8
C Burning behavior UL 94 (1.5 mm) [UL recognition]		Class	UL 94	HB
C Burning behavior UL 94 [UL recognition]	3.0 mm	Class	UL 94	HB
C Thermal conductivity, cross-flow	23 °C; 50 % r. h.	W/(m·K)	ISO 8302	0.2
Electrical properties (23 °C/50 % r. h.)				
C Relative permittivity	100 Hz	-	IEC 60250	3.2
C Relative permittivity	1 MHz	-	IEC 60250	3.1
C Dissipation factor	100 Hz	10⁻⁴	IEC 60250	17
C Dissipation factor	1 MHz	10⁻⁴	IEC 60250	150
C Volume resistivity		Ohm·m	IEC 60093	1E14
C Surface resistivity		Ohm	IEC 60093	1E16
C Electrical strength	1 mm	kV/mm	IEC 60243-1	34
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	200
Other properties (23 °C)				
C Water absorption (saturation value)	Water at 23 °C	%	ISO 62	0.5
C Water absorption (equilibrium value)	23 °C; 50 % r. h.	%	ISO 62	0.2
C Density		kg/m³	ISO 1183-1	1230
Processing conditions for test specimens				
C Injection molding-Melt temperature		°C	ISO 294	270
C Injection molding-Mold temperature		°C	ISO 294	70
C Injection molding-Injection velocity		mm/s	ISO 294	200

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

