

Makroblend DP 7665

PC+PET Blends, elastomer modified / Mineral filled
ISO Shortname

(PC+PET)-blends, impact modified, Injection molding grade 20 % mineral filled,
 ISO 7792-1-PC/PET,MHPR,-030,MD20

Property	Test Condition	Unit	Standard	Value
Rheological properties				
Melt volume-flow rate	270 °C; 5 kg	cm ³ /10 min	ISO 1133	14
Molding shrinkage, parallel/normal	Value range based on general practical experience (600bar)	%	b.o. ISO 2577	0,5 - 0,7
Post- shrinkage, parallel/normal	Value range based on general practical experience (1h; 90°C)	%	b.o. ISO 2577	0,1 - 0,2
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	4200
Yield stress	5 mm/min	MPa	ISO 527-1,-2	50
Yield strain	5 mm/min	%	ISO 527-1,-2	3
C Stress at break	5 mm/min	MPa	ISO 527-1,-2	50
Izod impact strength	23 °C	kJ/m ²	ISO 180-U	85
Izod impact strength	-30 °C	kJ/m ²	ISO 180-U	60
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-A	9
Ball indentation hardness		N/mm ²	ISO 2039-1	95
Thermal properties				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	112
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	130
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	135
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0,5
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0,5
Burning rate (US-FMVSS)	>=1.0 mm	mm/min	ISO 3795	passed
Electrical properties (23 °C/50 % r. h.)				
C Relative permittivity	100 Hz	-	IEC 60250	3,7
C Relative permittivity	1 MHz	-	IEC 60250	3,5
C Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	50
C Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	200
C Volume resistivity		Ohm·m	IEC 60093	>1E15
C Surface resistivity		Ohm	IEC 60093	>1E17
C Electrical strength	1 mm	kV/mm	IEC 60243-1	40
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	300
Comparative tracking index CTI M	Solution B	Rating	IEC 60112	100
Electrolytic corrosion		Rating	IEC 60426	A1
Other properties (23 °C)				
C Density		kg/m ³	ISO 1183-1	1350
Bulk density		g/cm ³	ISO 60	0,7
Filler content	Method A	%	b.o. ISO 3451-1	20
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