Makroblend® UT203

(PC+PET)-I — Covestro Deutschland AG

Product Texts

- (PC PET)-blend, impact modified,UV-stabilized, Injection molding grade

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**17**	cm³/10min	ISO 1133
Temperature	**260**	°C	-
Load	**5**	kg	-
Molding shrinkage, parallel	**0.7**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.7**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2350**	MPa	ISO 527
Yield stress	**59**	MPa	ISO 527
Nominal strain at break	**50**	%	ISO 527
Izod notched impact strength, +23°C	**75**	kJ/m²	ISO 180/1A

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**102**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**124**	°C	ISO 75-1/-2
Vicat softening temperature, B	**134**	°C	ISO 306
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1210**	kg/m³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
[C] Injection Molding, melt temperature	**275**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294
Injection Molding, injection velocity	**200**	mm/s	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**110**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.01**	%	-
Melt temperature	**260 - 280**	°C	-
Mold temperature	**50 - 100**	°C	-
Zone 1	**245 - 255**	°C	-
Zone 2	**250 - 260**	°C	-
Zone 3	**255 - 265**	°C	-
Nozzle temperature	**255 - 270**	°C	-
Back pressure	**5 - 15**	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather