Makroblend® KU2-7912

(PC+PBT)-I — Covestro Deutschland AG

Product Texts

- (PC PBT)-blend, impact modified, Injection molding grade, medium flow, high toughness at low temperatures, ideal for painted application, unreinforced, applications: automotive body panels

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**21**	cm³/10min	ISO 1133
Temperature	**260**	°C	-
Load	**5**	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2100**	MPa	ISO 527
[C] Yield stress	**50**	MPa	ISO 527
[C] Yield strain	**4**	%	ISO 527
[C] Nominal strain at break	**>50**	%	ISO 527
[C] Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**60**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**45**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**223**	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**84**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**100**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**90**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**90**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-
[C] Oxygen index	**21**	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	**3.2**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**3.1**	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	**10**	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**125**	E-4	IEC 62631-2-1
[C] Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2
[C] Electric strength	**31**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**600**	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.5**	%	Sim. to ISO 62
[C] Humidity absorption	**0.2**	%	Sim. to ISO 62
[C] Density	**1200**	kg/m³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
[C] Injection Molding, melt temperature	**260**	°C	ISO 294

Injection Molding, mold temperature	**70**	°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	**100 - 105**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.01**	%	-
Melt temperature	**250 - 270**	°C	-
Mold temperature	**60 - 80**	°C	-

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Additives
Release agent

Special Characteristics
High impact or impact modified

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

Other text information

Injection molding
PREPROCESSING
Max. Water content: 0.01 %
Drying temperature: 100 - 105 °C
Drying time:
Circulating air drying oven (50 % fresh air) 4-12 h
Fresh air dryer (high speed dryer) 2-4 h
Dry air dryer 2-4 h

PROCESSING
Melt temperature: 250-270 °C
Mold temperature: 60-80 °C

Use open nozzle.