Makrolon® WB1239

PC — Covestro Deutschland AG

Product Texts

- MVR (300 °C/1.2 kg) 2.0 cm³/10 min
- blow molding
- high viscosity
- branched
- food contact quality
- water bottles

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**2**	cm³/10min	ISO 1133
Temperature	**300**	°C	-
Load	**1.2**	kg	-
[C] Molding shrinkage, parallel	**0.8**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.8**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2300**	MPa	ISO 527
[C] Yield stress	**64**	MPa	ISO 527
[C] Yield strain	**6.6**	%	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] Puncture - maximum force, +23°C	**5500**	N	ISO 6603-2
[C] Puncture - maximum force, -30°C	**6400**	N	ISO 6603-2
[C] Puncture energy, +23°C	**55**	J	ISO 6603-2
[C] Puncture energy, -30°C	**60**	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Glass transition temperature, 10°C/min	**152**	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**132**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**145**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**150**	°C	ISO 306
[C] Coeff. of linear therm. expansion, parallel	**70**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**70**	E-6/K	ISO 11359-1/-2
[C] Oxygen index	**26**	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	**3.1**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**3**	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	**10**	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**100**	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	**34**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**250**	-	IEC 60112

[C]: CAMPUS

Optical properties	Value	Unit	Test Standard
ISO Data			
[C] Luminous transmittance	**87**	%	ISO 13468-1, -2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.3**	%	Sim. to ISO 62
[C] Humidity absorption	**0.12**	%	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	**310**	°C	ISO 294
Injection Molding, mold temperature	**90**	°C	ISO 294
Injection Molding, injection velocity	**200**	mm/s	ISO 294

[C]: CAMPUS

Characteristics

Processing
Blow Molding

Delivery form
Pellets

Special Characteristics
Transparent

Certifications
Food contact

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