Bayblend® T40 LG

(ABS+PC) Covestro Deutschland AG

Product Texts

- ABS+PC-Blend
- Vicat/B 120 temperature = 112 °C
- easy flowing
- improved UV resistance

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**14**	cm³/10min	ISO 1133
Temperature	**260**	°C	-
Load	**5**	kg	-
[C] Molding shrinkage, parallel	**0.7**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.7**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2150**	MPa	ISO 527
[C] Yield stress	**50**	MPa	ISO 527
[C] Yield strain	**3.7**	%	ISO 527
Izod impact strength, +23°C	**N**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**55**	kJ/m²	ISO 180/1A
Izod notched impact strength	**43**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-
[C] Puncture energy, +23°C	**40**	J	ISO 6603-2
[C] Puncture energy, -30°C	**40**	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**95**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**112**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**110**	°C	ISO 306
[C] Coeff. of linear therm. expansion, parallel	**80**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**80**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	**3**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**2.9**	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	**10**	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**90**	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	**35**	kV/mm	IEC 60243-1
[C] Comparative tracking index	**325**	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.7**	%	Sim. to ISO 62
[C] Humidity absorption	**0.2**	%	Sim. to ISO 62
[C] Density	**1110**	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	**80**	°C	ISO 294
Injection Molding, injection velocity	**240**	mm/s	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**95 - 110**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**260 - 280**	°C	-
Mold temperature	**70 - 90**	°C	-
Feed temperature	**230 - 240**	°C	-
Zone 1	**235 - 245**	°C	-
Zone 2	**240 - 270**	°C	-
Nozzle temperature	**265 - 275**	°C	-
Back pressure	**5 - 15**	MPa	-

Characteristics

Processing
Injection Molding

Special Characteristics
U.V. stabilized or stable to weather

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