Bayblend® FR3040 W

(PC+ABS)-I FR(40) Covestro Deutschland AG

Product Texts

- (PC+ABS)-Blend
- flame retardant
- impact modified
- for notebooks and thinwall applications

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**23**	cm³/10min	ISO 1133
Temperature	**240**	°C	-
Load	**5**	kg	-
[C] Molding shrinkage, parallel	**0.5**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.5**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2650**	MPa	ISO 527
[C] Yield stress	**60**	MPa	ISO 527
[C] Yield strain	**4**	%	ISO 527
Flexural modulus, 23°C	**2670**	MPa	ISO 178
Flexural strength	**94**	MPa	ISO 178
[C] Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**50**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**9**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**48**	kJ/m²	ISO 180/1A
Izod notched impact strength	**12**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-
[C] Puncture energy, +23°C	**49**	J	ISO 6603-2
Ball indentation hardness	**126**	MPa	ISO 2039-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**87**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**96**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**101**	°C	ISO 306
[C] Coeff. of linear therm. expansion, parallel	**57**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**56**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-
Yellow Card available	**yes**	-	-
[C] Burning Behav. 5V at thickness h	**5VB**	class	IEC 60695-11-20
Thickness tested	**1.5**	mm	-
Yellow Card available	**yes**	-	-
Glow Wire Flammability Index (GWFI)	**960**	°C	IEC 60695-2-12
GWFI - thickness tested (1)	**1**	mm	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	**>1E15**	Ohm	IEC 62631-3-2

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.14**	%	Sim. to ISO 62
[C] Density	**1190**	kg/m³	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
ISO Data			
[C] Injection Molding, melt temperature	**240**	°C	ISO 294
Injection Molding, mold temperature	**80**	°C	ISO 294

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**85**	°C	-
Pre-drying - Time	**4**	h	-
Processing humidity	**≤0.02**	%	-
Melt temperature	**250 - 280**	°C	-
Mold temperature	**60 - 80**	°C	-
Zone 1	**240 - 260**	°C	-
Zone 2	**250 - 270**	°C	-
Zone 3	**260 - 280**	°C	-
Nozzle temperature	**260 - 280**	°C	-
Back pressure	**5 - 10**	MPa	-

Characteristics

Processing
Injection Molding

Applications
IT / Business Machine

Special Characteristics
Flame retardant, High impact or impact modified

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