Bayblend® FR3025 R35 RE

(PC+ABS)-I-(T+Q)25 FR(40) Covestro Deutschland AG

Product Texts

- (PC+ABS)-Blend
- Vicat/B 120 temperature = 102 °C
- flame retardant
- mineral filled
- impact modified
- contains 35% post consumer PC recyclate for natural color
- UL recognition 94 V-0 at 1.2 mm
- low warpage
- improved stiffness and surface quality
- for notebooks and thinwall applications

Partially bio-circular grade / Attributed via mass balance (according to ISCC PLUS Standard).

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**27**	cm³/10min	ISO 1133
Temperature	**260**	°C	-
Load	**5**	kg	-
[C] Molding shrinkage, parallel	**0.3**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.3**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**6200**	MPa	ISO 527
[C] Yield stress	**59**	MPa	ISO 527
[C] Yield strain	**2.7**	%	ISO 527
[C] Charpy impact strength, +23°C	**50**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**45**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**6**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**4**	kJ/m²	ISO 179/1eA
Izod impact strength, +23°C	**40**	kJ/m²	ISO 180/1U
Izod notched impact strength, +23°C	**6**	kJ/m²	ISO 180/1A
Izod notched impact strength	**5**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-
[C] Puncture - maximum force, +23°C	**2600**	N	ISO 6603-2
[C] Puncture - maximum force, -30°C	**1100**	N	ISO 6603-2
[C] Puncture energy, +23°C	**13**	J	ISO 6603-2
[C] Puncture energy, -30°C	**2.5**	J	ISO 6603-2

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**90**	°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	**100**	°C	ISO 306
[C] Burning Behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.2**	mm	-
Yellow Card available	**yes**	-	-

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1400**	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	**85**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.025**	%	-
Melt temperature	**270 - 300**	°C	-
Mold temperature	**65 - 100**	°C	-
Zone 1	**240 - 260**	°C	-
Zone 2	**250 - 280**	°C	-
Zone 3	**270 - 300**	°C	-
Nozzle temperature	**270 - 300**	°C	-
Back pressure	**5 - 10**	MPa	-

Characteristics

Processing
Injection Molding

Delivery form
Natural Color

Special Characteristics
Flame retardant, High impact or impact modified

Features
Low Warpage

Certifications
Contains renewable resources, Recycled Resin Content, ISCC Plus

Applications
Electrical and Electronical

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