



Bayblend® FR3080 EV

(PC+ABS)-I FR(40)

Covestro Deutschland AG

- PC+ABS-I-FR(40)-Blend
- flame retardant
- for thin-wall applications
- for EVBP application

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	22	cm ³ /10min	ISO 1133
Temperature	240	°C	-
Load	5	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2450	MPa	ISO 527
Yield stress	59	MPa	ISO 527
Yield strain	4.3	%	ISO 527
Impact Strength (Charpy), +23 °C	no break	kJ/m ²	ISO 179/1eU
Puncture energy, +23 °C	49	J	ISO 6603-2
Notched Impact Strength (Izod), 23 °C	43	kJ/m ²	ISO 180/1A
Notched Impact Strength (Izod)	10	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	84	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	96	°C	ISO 75-1/-2
Vicat softening temperature, 50 °C/h 50N	103	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	57	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	56	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	V-0	class	UL 94
Thickness tested	0.8	mm	-

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Volume Resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface Resistivity	>1E15	Ohm	IEC 62631-3-2

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.14	%	Sim. to ISO 62
Density	1190	kg/m ³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	260	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	260 - 290	°C	-
Mold temperature	60 - 80	°C	-

Characteristics

Processing

Injection Molding

Delivery form

Black

Special Characteristics

Flame retardant, Impact modified