



Bayblend® W85 XB

(PC+ASA)

Covestro Deutschland AG

- PC ASA-Blend
- high heat resistance
- very easy-flowing
- excellent colorability and weathering resistance
- for: unpainted exterior and interior automotive and truck applications

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	23	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2400	MPa	ISO 527
Yield stress	60	MPa	ISO 527
Yield strain	4.9	%	ISO 527
Impact Strength (Charpy), +23°C	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy), -30°C	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy), +23°C	55	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy), -30°C	14	kJ/m ²	ISO 179/1eA
Puncture - maximum force, +23°C	4700	N	ISO 6603-2
Puncture - maximum force, -30°C	5700	N	ISO 6603-2
Puncture energy, +23°C	45	J	ISO 6603-2
Puncture energy, -30°C	50	J	ISO 6603-2
Flexural Modulus (23°C)	2500	MPa	ISO 178
Flexural strength	50	MPa	ISO 178
Notched Impact Strength (Izod), 23°C	50	kJ/m ²	ISO 180/1A
Notched Impact Strength (Izod)	11	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-
Impact Strength (Izod), 23°C	no break	kJ/m ²	ISO 180/1U

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	106	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	123	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	127	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	70	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	70	E-6/K	ISO 11359-1/-2
Burning Behav. at thickness h	HB	class	UL 94
Thickness tested	0.8	mm	-
Glow Wire (GWFI, Flammability Index)	750	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2	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
Comparative tracking index	175	-	IEC 60112

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1170	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
Injection Molding, injection velocity	240	mm/s	ISO 294

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Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	95 - 110	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.01	%	-
Melt temperature	260 - 280	°C	-
Mold temperature	70 - 90	°C	-
Zone 1	230 - 240	°C	-
Zone 2	235 - 245	°C	-
Zone 3	240 - 270	°C	-
Nozzle temperature	265 - 275	°C	-
Back pressure	5 - 15	MPa	-

Characteristics

Processing

Injection Molding

Applications

Automotive

Special Characteristics

UV stabilized, Heat aging stabilized