Bayblend® M850 XF RE

(PC+ABS)

Covestro Deutschland AG

- (PC+ABS)-Blend
- easy flowing
- Vicat/B 120 temperature = 131 °C
- meet certain requirements of ISO Standard 10993-1
- for further information please contact plastics@covestro.com

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	25	cm³/10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	62	MPa	ISO 527
Yield strain	4.9	%	ISO 527
Notched Impact Strength (Izod), 23°C	48	kJ/m²	ISO 180/1A
Notched Impact Strength (Izod)	15	kJ/m²	ISO 180/1A
Temperature	-30	°C	-
Impact Strength (Izod), 23°C	no break	kJ/m²	ISO 180/1U

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	109	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	127	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	129	°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	-

Electrical Properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	2.9	-	IEC 62631-2-1
Relative permittivity, 1MHz	2.9	-	IEC 62631-2-1
Dissipation Factor, 100Hz	30	E-4	IEC 62631-2-1
Dissipation Factor, 1MHz	90	E-4	IEC 62631-2-1
Volume Resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface Resistivity	>1E15	Ohm	IEC 62631-3-2
Electric Strength	35	kV/mm	IEC 60243-1
Comparative tracking index	250	-	IEC 60112
Relative permittivity, 100Hz	2.9	-	IEC 60250
Relative permittivity, 1MHz	2.9	-	IEC 60250
Dissipation Factor, 100Hz	30	E-4	IEC 60250
Dissipation Factor, 1MHz	90	E-4	IEC 60250
Volume Resistivity	1E14	Ohm*m	IEC 60093
Surface Resistivity	1E17	Ohm	IEC 60093

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.7	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1140	kg/m³	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

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	-
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

Certifications

Contains renewable resources, Biocompatibility ISO 10993, ISCC Plus

Disclaimer