

# Bayblend M303 FR

/ Specialty flame retardand grade for extrusion, blow molding and thermoforming  
 ISO Shortname PC+ABS

Property	Test Condition	Unit	Standard	Value
<b>Rheological properties</b>				
C Melt volume-flow rate	260 °C; 5 kg	cm <sup>3</sup> /10 min	ISO 1133	11
Molding shrinkage, parallel/normal	Value range based on general practical experience	%	b.o. ISO 2577	0.5 - 0.7
<b>Mechanical properties (23 °C/50 % r. h.)</b>				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2650
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	69
C Yield strain	50 mm/min	%	ISO 527-1,-2	5
Stress at break	50 mm/min	MPa	ISO 527-1,-2	53
Izod impact strength	23 °C	kJ/m <sup>2</sup>	ISO 180-U	N
Izod notched impact strength	23 °C	kJ/m <sup>2</sup>	ISO 180-A	40
Izod notched impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 180-A	10
<b>Thermal properties</b>				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	98
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	106
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	113
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	115
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.68
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.72
C Burning behavior UL 94 (1.5 mm)	1.5 mm	Class	UL 94	V-0 (Bayer Test)
C Burning behavior UL 94	0.75 mm	Class	UL 94	V-2 (Bayer Test)
<b>Electrical properties (23 °C/50 % r. h.)</b>				
C Relative permittivity	100 Hz	-	IEC 60250	3.2
C Relative permittivity	1 MHz	-	IEC 60250	3.1
C Dissipation factor	100 Hz	10 <sup>-4</sup>	IEC 60250	37
C Dissipation factor	1 MHz	10 <sup>-4</sup>	IEC 60250	75
C Volume resistivity		Ohm·m	IEC 60093	1E15
C Surface resistivity		Ohm	IEC 60093	1E17
C Electrical strength	1 mm	kV/mm	IEC 60243-1	35
<b>Other properties (23 °C)</b>				
C Water absorption (saturation value)	Water at 23 °C	%	ISO 62	0.5
C Density		kg/m <sup>3</sup>	ISO 1183-1	1190

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

Impact properties: N = non-break, P = partial break, C = complete break



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## Disclaimer

### General

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Bayer MaterialScience AG,

D-51368 Leverkusen,

[www.bayermaterialscience.com](http://www.bayermaterialscience.com)

[pcs-info@bayermaterialscience.com](mailto:pcs-info@bayermaterialscience.com)