

Bayblend® M303 FR

Polycarbonate + ABS

Covestro - Polycarbonates

Message:

PC+ABS-FR(40); Vicat/B 120 = 115°C; suitable for use in electrical and electronic devices. Manufactured according to GMP, tested only according to ISO 10993-5 and ISO 10993-10 for contact with uncompromised skin only; for questions regarding biocompatibility we ask for an email inquiry under plastics@bayer.com.

General Information			
Additive	Flame Retardant		
Features	Flame Retardant		
Uses	Electrical/Electronic Applications		
Agency Ratings	ISO 10993 Part 10		
	ISO 10993 Part 5		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.19	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	11.0	cm³/10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow	0.50 to 0.70	%	
Flow	0.50 to 0.70	%	
Water Absorption (Saturation, 23°C)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2650	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	69.0	MPa	
Break, 23°C	53.0	MPa	
Tensile Strain (Yield, 23°C)	5.0	%	ISO 527-2/50
Nominal Tensile Strain at Break (23°C)	> 50	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C	10	kJ/m²	
23°C	40	kJ/m²	
Unnotched Izod Impact Strength (23°C)	No Break		ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	106	°C	ISO 75-2/B
1.8 MPa, Unannealed	98.0	°C	ISO 75-2/A
Vicat Softening Temperature			

--	113	°C	ISO 306/B50
--	115	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 55°C	6.8E-5	cm/cm/°C	
Transverse : 23 to 55°C	7.2E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+17	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+17	ohms·cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.20		
23°C, 1 MHz	3.10		
Dissipation Factor			IEC 60250
23°C, 100 Hz	3.7E-3		
23°C, 1 MHz	7.5E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm, Bayer Test	V-2		
1.50 mm, Bayer Test	V-0		
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity ¹ (260°C)	410	Pa·s	ISO 11443-A
ISO Shortname	PC+ABS		
NOTE			
1.	1000/s		

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