

Bayblend® FR3030

(PC+ABS) FR(40)

Covestro Deutschland AG

- (PC ABS)-Blend
- flame retardant
- Vicat/B 120 temperature = 115 °C
- extrusion grade
- good extrusion and vacuum-forming behaviour
- UL recognition 94 V-0 at 1.5 mm
- halogen-free according to DIN VDE 0472:815
- glow wire temperature (GWFI): 960 °C at 1.0 mm

Rheological properties	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	11	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	5	kg	-

Mechanical Properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2650	MPa	ISO 527
Yield stress	69	MPa	ISO 527
Yield strain	5	%	ISO 527

Thermal Properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load (1.80 MPa)	98	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	106	°C	ISO 75-1/-2
Vicat softening temperature, 50 °C/h 50N	113	°C	ISO 306
Coeff. of Linear Therm. Expansion, parallel	68	E-6/K	ISO 11359-1/-2
Coeff. of Linear Therm. Expansion, normal	72	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nom. Thickn.	V-0	class	UL 94
Thickness tested	1.5	mm	-
Burning Behav. 5V at Thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2.0	mm	-

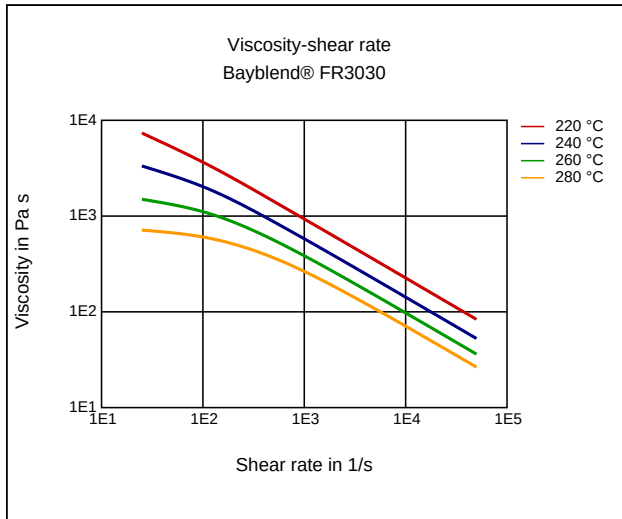
Electrical Properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	3.2	-	IEC 62631-2-1
Relative permittivity, 1MHz	3.1	-	IEC 62631-2-1
Dissipation Factor, 100Hz	37	E-4	IEC 62631-2-1
Dissipation Factor, 1MHz	75	E-4	IEC 62631-2-1
Volume Resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface Resistivity	>1E15	Ohm	IEC 62631-3-2
Electric Strength	35	kV/mm	IEC 60243-1
Comparative tracking index	350	-	IEC 60112

Other Properties	Value	Unit	Test Standard
ISO Data			
Water Absorption	0.5	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1190	kg/m ³	ISO 1183

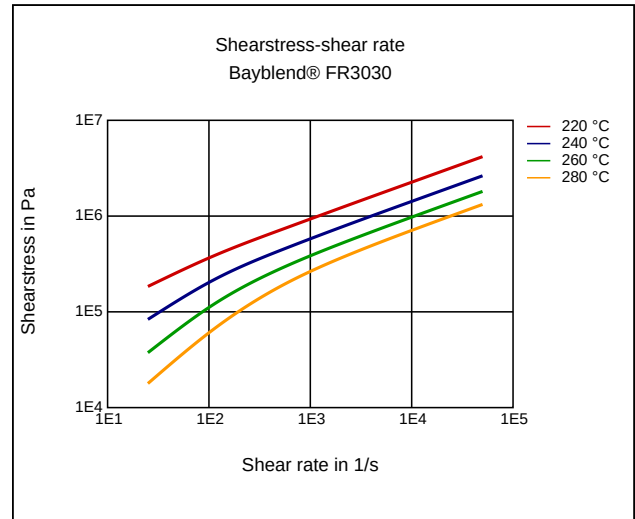
Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	260	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 294
Injection Molding, injection velocity	240	mm/s	ISO 294

Diagrams

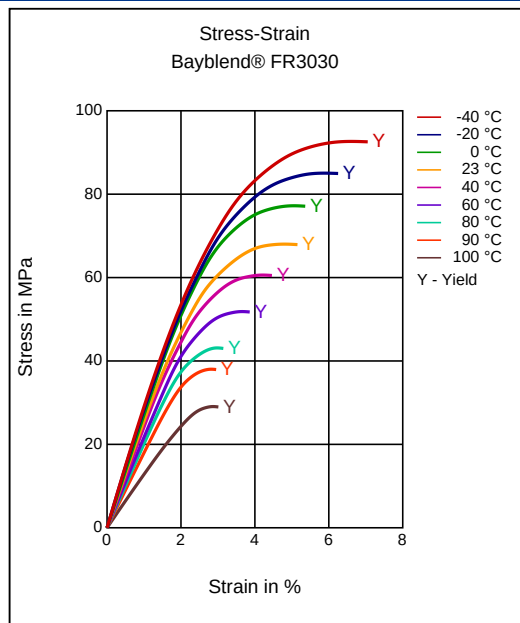
Viscosity-shear rate



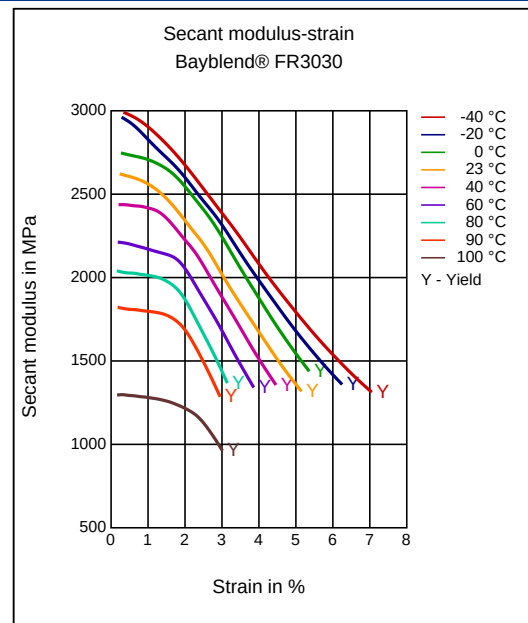
Shearstress-shear rate



Stress-strain



Secant modulus-strain



Characteristics

Processing

Profile Extrusion, Sheet Extrusion, Other Extrusion, Calendering, Thermoforming

Delivery form

Pellets

Additives

Release agent

Special Characteristics

Flame retardant, Halogen-free

Profile extrusion

PREPROCESSING

Max. Water content: 0.02 %

Drying temperature: 75 - 110 °C

Drying time:
Fresh air dryer (high speed dryer) 2-4 h
Dry air dryer 2-4 h
PROCESSING
Melt temperature: 230 - 250 °C
Section 1: 250 - 270 °C
Section 2: 240 - 260 °C
Section 3: 230 - 250 °C
Section 4: 230 - 250 °C
Die: 240 - 250 °C

Disclaimer

Liability Exclusion

These guide values are measured and provided by the product manufacturer and have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions. M-Base has taken the guide values from the producer's original Technical Data Sheet. **ALBIS AND M-BASE ARE THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THE GUIDE VALUES AND CANNOT GIVE ANY WARRANTY WITH REGARD TO THEIR CORRECTNESS.**

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