

Covestro Bayblend® FR 2010 Polycarbonate/ABS Blend (discontinued **)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Easy-flowing FR grade. Flame retardant grade with antimony, chlorine and bromine free, flame retardant package, optimized processability. Applications: Housings for office equipment, electrical engineering, computer sectors. Information provided by Bayer. As of 1 September 2015, Bayer MaterialScience was separated from Bayer AG and has officially adopted its new name – Covestro. This product was discontinued prior to the separation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-FR-2010-PolycarbonateABS-Blend-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	
Water Absorption	0.70 %	0.70 %	Saturation in water
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Equilibrium at 50% RH
Water Absorption at Saturation	0.70 %	0.70 %	
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	25 g/10 min @Load 5.00 kg, Temperature 240 °C	25 g/10 min @Load 11.0 lb, Temperature 464 °F	
Spiral Flow	61.0 cm @Thickness 2.50 mm	24.0 in @Thickness 0.0984 in	at 254°C melt temp.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	
Elongation at Break	80 %	80 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	
Tensile Modulus	2.70 GPa	392 ksi	
Flexural Yield Strength	95.0 MPa	13800 psi	at 5% strain; ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	ASTM D790
Izod Impact, Notched	5.30 J/cm @Thickness 3.20 mm	9.93 ft-lb/in @Thickness 0.126 in	ASTM D256

Mechanical Properties	52.0 J Metric	38.4 ft-lb English	Instrumented Total Impact; 3.2 mm nick, 12.5 mm dart, 75 mm clamp, 6.7 m/s; ASTM D3763
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	76.0 µm/m-°C	42.2 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	
Vicat Softening Point	108 °C	226 °F	
UL RTI, Electrical	95.0 °C	203 °F	
UL RTI, Mechanical with Impact	85.0 °C	185 °F	
UL RTI, Mechanical without Impact	85.0 °C	185 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	34 %	34 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Dielectric Constant	2.9	2.9	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.0	3.0	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Dissipation Factor	0.0030	0.0030	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0080	0.0080	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Comparative Tracking Index Electrical Properties	300 V Metric	300 V English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	220 - 270 °C	428 - 518 °F	

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