

Covestro Bayblend® FR 90 N Polycarbonate/ABS Blend

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

Material Notes:

Flame retardant grade with antimony, chlorine and bromine free, flame retardant package, optimized processability. Information provided by Bayer. As of 1 September 2015, Bayer MaterialScience was separated from Bayer AG and officially adopted its new name – Covestro.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-FR-90-N-PolycarbonateABS-Blend.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 %	
Melt Flow	20 g/10 min	20 g/10 min	
	@Load 5.00 kg, Temperature 240 °C	@Load 11.0 lb, Temperature 464 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	
Elongation at Break	>= 50 %	>= 50 %	Nominal
Elongation at Yield	4.0 %	4.0 %	
Tensile Modulus	2.80 GPa	406 ksi	
Tensile Creep Modulus, 1 hour	2500 MPa	363000 psi	
Tensile Creep Modulus, 1000 hours	1900 MPa	276000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	69.0 µm/m-°C	38.3 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	76.0 µm/m-°C	42.2 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	85.0 °C @Thickness 1.00 mm	185 °F @Thickness 0.0394 in	
UL RTI, Mechanical with Impact	75.0 °C @Thickness 1.50 mm	167 °F @Thickness 0.0591 in	
UL RTI, Mechanical without Impact	80.0 °C @Thickness 1.50 mm	176 °F @Thickness 0.0591 in	
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Oxygen Index	30 %	30 %	

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 @Frequency 1e+6 Hz	2.9 @Frequency 1e+6 Hz	
	3.0 @Frequency 100 Hz	3.0 @Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Dissipation Factor	0.0050 @Frequency 100 Hz	0.0050 @Frequency 100 Hz	
	0.0070 @Frequency 1e+6 Hz	0.0070 @Frequency 1e+6 Hz	
Arc Resistance	60 - 120 sec @Thickness 3.00 mm	60 - 120 sec @Thickness 0.118 in	UL Rating PLC 6 (60-120 sec)
Comparative Tracking Index	300 V	300 V	
Hot Wire Ignition, HWI	60 - 120 sec @Thickness 3.00 mm	60 - 120 sec @Thickness 0.118 in	UL Rating PLC 1 (60-120 sec)
High Amp Arc Ignition, HAI	>= 120 arcs @Thickness 1.50 mm	>= 120 arcs @Thickness 0.0591 in	UL Rating PLC 0 (>120 arcs)

High Voltage Arc-Tracking Rate, Electrical Properties	>= 150 mm/min Metric	>= 5.91 in/min English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	LC 4 (>150 mm/min.)

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