



Covestro Bayblend® T88-2N Polycarbonate + ABS, 10% Glass Filled (discontinued **)

Categories: [Polymer](#); [Thermoplastic](#); [ABS Polymer](#); [Polycarbonate/ABS Alloy](#); [Glass Fiber Filled](#); [Polycarbonate \(PC\)](#)

- Material Notes:**
- Injection molding grade
 - 10 % glass fiber filled
 - tensile modulus = 3900 MPa
 - Vicat/B 120 temperature = 131 °C

As of 1 September 2015, Bayer MaterialScience was separated from Bayer AG and officially adopted its new name – Covestro.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.


Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Melt Density	1.02 g/cc	0.0368 lb/in ³	
	@Temperature 260 °C	@Temperature 500 °F	
Water Absorption	0.60 %	0.60 %	Similar to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Similar to ISO 62
Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	63.0 MPa	9140 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	3.90 GPa	566 ksi	ISO 527-1/-2
Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant 	3.2	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.3	3.3	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor 	35.0 kV/mm	889 kV/in	IEC 60243-1
	0.0025	0.0025	IEC 60250
Comparative Tracking Index	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0085	0.0085	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	175 V	175 V	IEC 60112
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	42.0 µm/m-°C	23.3 µm/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µm/in-°F	ISO 11359-1/-2
Specific Heat Capacity	1.65 J/g-°C	0.394 BTU/lb-°F	Melt
Thermal Conductivity	0.155 W/m-K	1.08 BTU-in/hr-ft ² -°F	Melt
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	118 °C	244 °F	ISO 75-1/-2
Vicat Softening Point	129 °C	264 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Processing Properties	Metric	English	Comments
Melt Temperature	240 - 280 °C	464 - 536 °F	
	260 °C	500 °F	Injection Molding; ISO 294
Mold Temperature	80.0 °C	176 °F	Injection Molding; ISO 10724
	70.0 - 100 °C	158 - 212 °F	
	70.0 - 100 °C	158 - 212 °F	
Ejection Temperature	130 °C	266 °F	
Injection Velocity	540 mm/sec	21.3 in/sec	ISO 294
Drying Temperature	100 - 110 °C	212 - 230 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	Dry air dryer
	2.00 - 4.00 hour	2.00 - 4.00 hour	Fresh air dryer (high speed dryer)

	4.00 - 8.00 hour	4.00 - 8.00 hour	Circulating air drying oven (50 % fresh air)
Moisture Content	0.010 - 0.050 %	0.010 - 0.050 %	

Descriptive Properties

Availability	North America
Eff. thermal diffusivity (m ² /s)	9.18E-08
Feature	Heat stabilised or stable to heat Release agent
Form	Pellets
Process	Injection Molding
UL recognition	ULM1.5n

**

Materials flagged as discontinued () are no longer part of the manufacturer's standard product line according to our latest information. These materials may be available by special order, in distribution inventory, or reinstated as an active product. Data sheets from materials that are no longer available remain in MatWeb to assist users in finding replacement materials.

Users of our Advanced Search (registration required) may exclude discontinued materials from search results.

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.