

Covestro Bayblend® T65 Polycarbonate + ABS (discontinued **)

Categories: [Polymer](#); [Thermoplastic](#); [ABS Polymer](#); [Polycarbonate/ABS Alloy, Unreinforced](#); [Polycarbonate \(PC\)](#)

Material Notes:

- 1 General purpose injection molding grade
- 1 Vicat/B 120 temperature = 120 °C
- 1 good low temperature impact strength

Preprocessing

Max. Water content 0.01-0.05 %

Drying temperature 100-110 °C

Drying time

Circulating air drying oven (50 % fresh air) 4-8 h

Fresh air dryer (high speed dryer) 2-4 h

Dry air dryer 2-4 h

Care must be taken to ensure that the pellets are processed in a sufficiently dry state.

Processing

Melt temperature 240-280 °C



Mold temperature 60-80 °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	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Melt Density	0.960 g/cc @Temperature 260 °C	0.0347 lb/in ³ @Temperature 500 °F	
Water Absorption	0.70 %	0.70 %	Similar to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Similar to ISO 62
Melt Flow	12 g/10 min @Load 5.00 kg, Temperature 260 °C	12 g/10 min @Load 11.0 lb, Temperature 500 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	52.0 MPa	7540 psi	ISO 527-1/-2
Elongation at Yield	4.2 %	4.2 %	ISO 527-1/-2
Tensile Modulus	2.20 GPa	319 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 	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	IEC 60250
	3.1 @Frequency 100 Hz	3.1 @Frequency 100 Hz	IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor 	0.0030 @Frequency 100 Hz	0.0030 @Frequency 100 Hz	IEC 60250
	0.0085 @Frequency 1.00e+6 Hz	0.0085 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	250 V	250 V	IEC 60112

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	85.0 µm/m-°C	47.2 µin/in-°F	ISO 11359-1/-2
Specific Heat Capacity	1.74 J/g-°C	0.416 BTU/lb-°F	Melt
Thermal Conductivity	0.148 W/m-K	1.03 BTU-in/hr-ft ² -°F	Melt
Deflection Temperature at 0.46 MPa (66 psi)	122 °C	252 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	ISO 75-1/-2
Vicat Softening Point	118 °C	244 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB @Thickness 0.900 mm	HB @Thickness 0.0354 in	IEC 60695-11-10

Processing Properties	Metric	English	Comments
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Melt Temperature	240 - 280 °C	464 - 536 °F	
	260 °C	500 °F	Injection Molding; ISO 294
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
	80.0 °C	176 °F	Injection Molding; ISO 10724
Ejection Temperature	120 °C	248 °F	
Injection Velocity	240 mm/sec	9.45 in/sec	ISO 294

Descriptive Properties

Availability	Asia Pacific
	Europe
	India
	Near East/Africa
	North America
	South and Central America
Eff. thermal diffusivity (m ² /s)	8.86E-08
Feature	Release agent
Form	Pellets
Process	Injection Molding
UL recognition	UL\h\n

**
Materials flagged as discontinued (D) 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.