

## Covestro Bayblend® T95 MF\* Polycarbonate + ABS, Mineral Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Developmental product Injection molding grade 9% mineral filled very high heat resistance reduced coefficient of linear thermal expansion tensile modulus = 3350 MPa Vicat/B 120 = 142 °C Preprocessing Max. Water content

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Covestro-Bayblend-T95-MF-Polycarbonate-ABS-Mineral-Filled.php](http://www.lookpolymers.com/polymer_Covestro-Bayblend-T95-MF-Polycarbonate-ABS-Mineral-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.60 %	0.60 %	Similar to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Similar to ISO 62
Melt Flow	22 g/10 min @Load 5.00 kg, Temperature 260 °C	22 g/10 min @Load 11.0 lb, Temperature 500 °F	estimated from MVR using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	66.0 MPa	9570 psi	ISO 527-1/-2
Elongation at Yield	4.6 %	4.6 %	ISO 527-1/-2
Tensile Modulus	3.35 GPa	486 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	55.0 µm/m-°C	30.6 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	65.0 µm/m-°C	36.1 µin/in-°F	ISO 11359-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	136 °C	277 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	124 °C	255 °F	ISO 75-1/-2
Vicat Softening Point	140 °C	284 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB @Thickness 0.900 mm	HB @Thickness 0.0354 in	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093

Surface Resistance Electrical Properties	$\geq 1.00e+15$ ohm Metric	$\geq 1.00e+15$ ohm English	IEC 60093 Comments
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.2	3.2	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.0015	0.0015	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0090	0.0090	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	200 V	200 V	IEC 60112

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	
Injection Velocity	240 mm/sec	9.45 in/sec	ISO 294

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	Near East/Africa	
	South and Central America	
Feature	Heat stabilised or stable to heat	
	Release agent	
Form	Pellets	
Process	Injection Molding	

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