

## Covestro Bayblend® T45 Polycarbonate + ABS

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

### Material Notes:

General purpose injection molding grade Vicat/B 120 temperature = 112 °C Preprocessing Max. Water content

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Covestro-Bayblend-T45-Polycarbonate-ABS.php](http://www.lookpolymers.com/polymer_Covestro-Bayblend-T45-Polycarbonate-ABS.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	ISO 1183
	0.935 g/cc	0.0338 lb/in <sup>3</sup>	Melt
	@Temperature 260 °C	@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	11 g/10 min	11 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	49.0 MPa	7110 psi	ISO 527-1/-2
Elongation at Yield	3.7 %	3.7 %	ISO 527-1/-2
Tensile Modulus	2.10 GPa	305 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 µm/m-°C	47.2 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2
Specific Heat Capacity	1.76 J/g-°C	0.421 BTU/lb-°F	Melt
Thermal Conductivity	0.142 W/m-K	0.985 BTU-in/hr-ft <sup>2</sup> -°F	Melt
Deflection Temperature at 0.46 MPa (66 psi)	112 °C	234 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ISO 75-1/-2
Vicat Softening Point	110 °C	230 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10

Thermal Properties	@Thickness 0.900 mm Metric	@Thickness 0.0354 in English	Comments
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	3.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.1	3.1	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.0035	0.0035	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0085	0.0085	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	275 V	275 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	60.0 - 80.0 °C	140 - 176 °F	
	80.0 °C	176 °F	Injection Molding; ISO 10724
Ejection Temperature	110 °C	230 °F	
Injection Velocity	240 mm/sec	9.45 in/sec	ISO 294

Descriptive Properties	Value	Comments
Availability	North America	
Eff. thermal diffusivity (m <sup>2</sup> /s)	8.63E-08	
Feature	Release agent	
Form	Pellets	
Process	Injection Molding	

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