

Covestro Bayblend® T50 XF Polycarbonate + ABS

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

Material Notes:

Injection molding grade Vicat/B 120 = 115 °C excellent flow good low temperature impact strength Preprocessing Max. Water content

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-T50-XF-Polycarbonate-ABS.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
	0.935 g/cc	0.0338 lb/in ³	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	24 g/10 min	24 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	50.0 MPa	7250 psi	ISO 527-1/-2
Elongation at Yield	4.5 %	4.5 %	ISO 527-1/-2
Tensile Modulus	2.20 GPa	319 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C	50.0 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 ² -°F	Melt
Deflection Temperature at 0.46 MPa (66 psi)	116 °C	241 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	97.0 °C	207 °F	ISO 75-1/-2
Vicat Softening Point	113 °C	235 °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
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	115 °C	239 °F	
Injection Velocity	240 mm/sec	9.45 in/sec	ISO 294

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	India	
	Near East/Africa	
	South and Central America	
Eff. thermal diffusivity (m ² /s)	8.63E-08	
Feature	Release agent	
Form	Pellets	
Process	Injection Molding	

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