Product Comparison



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Product Description	
Bayblend® T65 XF	(PC+ABS)-Blend; Vicat/B 120 temperature = 120°C; improved flow compared with T65
Generic PC+ABS	This data represents typical values that have been calculated from all products classified as: Generic PC +ABS
	This information is provided for comparative purposes only.

General	Bayblend® T65 XF	Generic PC+ABS
Manufacturer / Supplier	Covestro - Polycarbonates	Generic
Generic Symbol	• PC+ABS	• PC+ABS
Material Status	Commercial: Active	Commercial: Active
Literature ¹	 Technical Datasheet (English) 	
UL Yellow Card ²	• E41613-232987	
Search for UL Yellow Card	Covestro - PolycarbonatesBayblend®	
Availability	 Africa & Middle East Asia Pacific Europe Latin America North America 	 Africa & Middle East Asia Pacific Europe Latin America North America
Features	Good Flow	
RoHS Compliance	RoHS Compliant	
ISO Designation	• PC+ABS	

Physical	Bayblend® T65 XF	Generic PC+ABS	Unit	Test Method
Density / Specific Gravity				
		1.10 to 1.21	g/cm³	ASTM D792 ISO 1183
23°C	1.13		g/cm³	ISO 1183
		1.10 to 1.19	g/cm³	ASTM D1505
Apparent (Bulk) Density		0.60 to 0.65	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR)				
260°C/5.0 kg		4.8 to 30	g/10 min	ASTM D1238
260°C/5.0 kg		12 to 29	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	18	8.0 to 49	cm³/10min	ISO 1133
Spiral Flow		39.6 to 68.6	cm	
Molding Shrinkage				
Flow		0.45 to 0.74	%	ASTM D955
Across Flow		0.54 to 0.62	%	ASTM D955
		0.48 to 0.65	%	ISO 294-4
Across Flow: 260°C, 3.00 mm ⁴	0.50 to 0.70		%	ISO 2577
Flow: 260°C, 3.00 mm ⁴	0.50 to 0.70		%	ISO 2577

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N	Bayblend®	Generic		T (11)
Physical	T65 XF	PC+ABS	Unit	Test Method
Water Absorption				
24 hr		0.096 to 0.22	%	ASTM D570
24 hr, 23°C		0.088 to 0.70	%	ISO 62
Saturation		0.10 to 0.61	%	ASTM D570
Saturation, 23°C	0.70	0.090 to 0.70	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	0.057 to 0.25	%	ISO 62
Mechanical	Bayblend® T65 XF	Generic PC+ABS	Unit	Test Method
Tensile Modulus				
		1850 to 3050	MPa	ASTM D638
		1620 to 3190	MPa	ISO 527-1
23°C	2350		MPa	ISO 527-1/1
Tensile Strength				
Yield		48.4 to 65.2	MPa	ASTM D638
Yield		35.0 to 67.1	MPa	ISO 527-2
Yield, 23°C	54.0		MPa	ISO 527-2/50
Break		39.2 to 62.3	MPa	ASTM D638
Break		39.2 to 58.5	MPa	ISO 527-2
Break, 23°C	47.0		MPa	ISO 527-2/50
		39.5 to 66.2	MPa	ASTM D638
		47.8 to 60.5	MPa	ISO 527-2
Tensile Elongation				
Yield		1.5 to 21	%	ASTM D638
Yield		2.5 to 7.4	%	ISO 527-2
Yield, 23°C	4.4		%	ISO 527-2/50
Break		29 to 110	%	ASTM D638
Break		28 to 100	%	ISO 527-2
Break, 23°C	> 50		%	ISO 527-2/50
Nominal Tensile Strain at Break		49 to 100	%	ISO 527-2
Flexural Modulus				
		2010 to 2770	MPa	ASTM D790
		1810 to 2700	MPa	ISO 178
23°C ⁵	2350		MPa	ISO 178
Flexural Strength				
		68.4 to 105	MPa	ASTM D790
		69.0 to 102	MPa	ISO 178
23°C ⁵	84.0		MPa	ISO 178
3.5% Strain, 23°C ⁵	73.0		MPa	ISO 178
Yield		68.4 to 105	MPa	ASTM D790
Break		63.7 to 83.7	MPa	ASTM D790
Taber Abrasion Resistance		54.0 to 82.0	mg	ASTM D1044

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mpact	Bayblend® T65 XF	Generic PC+ABS	Unit	Test Method
Charpy Notched Impact Strength				
		6.5 to 63	kJ/m²	ISO 179
-30°C	36		kJ/m²	ISO 179/1eA
23°C	50		kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength		22 to 100	kJ/m²	ISO 179
Notched Izod Impact				
		48 to 710	J/m	ASTM D256
		9.0 to 57	kJ/m²	ISO 180
-30°C	35		kJ/m²	ISO 180/A
23°C	48		kJ/m²	ISO 180/A
Notched Izod Impact (Area)		39.2 to 65.1	kJ/m²	ASTM D256
Unnotched Izod Impact				
		380 to 2200	J/m	ASTM D4812
		94 to 100	kJ/m²	ISO 180
-30°C	No Break			ISO 180
23°C	No Break			ISO 180
Instrumented Dart Impact				
		42.8 to 65.3	J	ASTM D3763
		35.0 to 105	J	ISO 6603-2
Multi-Axial Instrumented Impact Peak Force		4260 to 5400	N	ISO 6603-2
Gardner Impact		35.6 to 36.3	J	ASTM D3029
lardness	Bayblend® T65 XF	Generic PC+ABS	Unit	Test Method
Rockwell Hardness				
		100 to 120		ASTM D785
		106 to 124		ISO 2039-2
Shore Hardness		79 to 80		ISO 868
Ball Indentation Hardness		89.3 to 133	MPa	ISO 2039-1
Thermal	Bayblend® T65 XF	Generic PC+ABS	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed		86.9 to 131	°C	ASTM D648
0.45 MPa, Unannealed	122	87.6 to 131	°C	ISO 75-2/B
0.45 MPa, Annealed		92.0 to 129	°C	ISO 75-2/B
1.8 MPa, Unannealed		79.9 to 116	°C	ASTM D648
1.8 MPa, Unannealed	102	78.9 to 113	°C	ISO 75-2/A
1.8 MPa, Annealed		94.6 to 110	°C	ISO 75-2/A
Continuous Use Temperature		60.0 to 100	°C	ASTM D794
Vicat Softening Temperature				
		89.9 to 139	°C	ASTM D1525
	120		°C	ISO 306/B120
	118		°C	ISO 306/B50
		92.5 to 141	°C	ISO 306

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Thermal	Bayblend® T65 XF	Generic PC+ABS	Unit	Test Method
CLTE				
Flow		7.1E-5 to 8.3E-5	cm/cm/°C	ASTM D696
Flow		5.3E-5 to 7.6E-5	cm/cm/°C	ASTM E831
Flow		5.5E-5 to 1.0E-4	cm/cm/°C	ISO 11359-2
Flow: 23 to 55°C	8.0E-5		cm/cm/°C	ISO 11359-2
Transverse		6.9E-5 to 9.1E-5	cm/cm/°C	ASTM E831
Transverse		5.6E-5 to 8.6E-5	cm/cm/°C	ISO 11359-2
Transverse : 23 to 55°C	8.5E-5		cm/cm/°C	ISO 11359-2
Thermal Conductivity				
		0.20 to 0.37	W/m/K	ASTM C177
		0.20	W/m/K	ISO 8302
RTI Elec		60.0 to 90.4	°C	UL 746B
RTI Imp		60.0 to 90.0	°C	UL 746B
RTI Str		60.0 to 90.4	°C	UL 746B
Electrical	Bayblend® T65 XF	Generic PC+ABS	Unit	Test Method
Surface Resistivity				
		1.0E+4 to 2.5E+15	ohms	ASTM D257
	1.0E+16	5.1E+3 to 1.3E+16	ohms	IEC 60093
Volume Resistivity				
		1.0 to 1.0E+17	ohms∙cm	ASTM D257
		1.0E+11 to 5.0E+16	ohms∙cm	IEC 60093
23°C	1.0E+16		ohms∙cm	IEC 60093
Dielectric Strength				
		8.5 to 40	kV/mm	ASTM D149
		15 to 37	kV/mm	IEC 60243-1
23°C, 1.00 mm	35		kV/mm	IEC 60243-1
Dielectric Constant				
		3.00 to 3.01		ASTM D150
		2.89 to 3.10		IEC 60250
		2.95		IEC 60250
23°C, 100 Hz	3.10			IEC 60250
23°C, 1 MHz	3.00			IEC 60250
Dissipation Factor				
`		4.9E-3 to 9.1E-3		ASTM D150
		1.0E-3 to 9.6E-3		IEC 60250
23°C, 100 Hz	3.0E-3			IEC 60250
23°C, 1 MHz	8.5E-3			IEC 60250
Arc Resistance		119 to 123	sec	ASTM D495
Comparative Tracking Index				IEC 60112
		218 to 600	V	
Solution A	250		V	

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Bayblend® Generic Flammability Unit Test Method T65 XF PC+ABS ISO 3795 **Burning Rate** 33 to 100 mm/min **UL 94** Flame Rating (0.9 mm) HB °C Glow Wire Flammability Index 642 to 960 IEC 60695-2-12 Glow Wire Ignition Temperature 694 to 960 °C IEC 60695-2-13 Oxygen Index 28 to 32 % **ASTM D2863** __6 24 % ISO 4589-2 23 to 34 % ISO 4589-2 Bayblend® Generic Fill Analysis Unit **Test Method T65 XF** PC+ABS Melt Viscosity 170 to 255 Pa·s **ASTM D3835** Melt Viscosity 7 (260°C) 200 Pa·s ISO 11443-A Bayblend® Generic Unit Injection T65 XF PC+ABS **Drying Temperature** °C 79 to 110 °C Dry Air Dryer 95 to 110 **Drying Time** 2.7 to 5.0 hr Dry Air Dryer 4.0 hr Drying Time, Maximum 6.0 hr < 0.020 % Suggested Max Moisture 0.020 to 0.024 Suggested Shot Size 30 to 70 50 to 55 % °C 70 to 74 Hopper Temperature Rear Temperature 220 to 230 218 to 266 °C °C Middle Temperature 225 to 235 229 to 274 °C Front Temperature 230 to 240 234 to 270 °C Nozzle Temperature 255 to 265 249 to 273 Processing (Melt) Temp 240 to 270 243 to 275 °C Mold Temperature 70 to 90 59 to 86 °C Injection Pressure MPa 85.3 to 99.0 Holding Pressure --74.7 to 75.0 MPa **Back Pressure** 5.00 to 15.0 0.138 to 10.0 MPa Screw Speed 52 to 56 rpm Vent Depth 0.025 to 0.075 0.050 to 0.057 mm Injection Notes Peripheral Screw Speed: 0.05 - 0.2 m/s Bayblend® Standard Melt Temperature: 260°C

T65 XF

Hold Pressure (% of Injection Pressure): 50 - 75%

Generic PC+ABS This data represents typical values that have been calculated from all products classified as: Generic PC +ABS

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Extrusion	Bayblend® T65 XF	Generic PC+ABS	Unit	
Drying Temperature		89 to 95	°C	
Drying Time		3.0 to 7.0	hr	
Melt Temperature		250 to 257	°C	

This data represents typical values that have been calculated from all products classified as: Generic PC +ABS

Generic PC+ABS

This information is provided for comparative purposes only.

Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.
- ³ Typical properties: these are not to be construed as specifications.
- 4 150x105x3mm,, MT 80°C
- ⁵ 2.0 mm/min
- ⁶ Procedure A
- ⁷ 1000s-1

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