

Bayblend® T65 XF

Covestro - Polycarbonates - Polycarbonate + ABS

Thursday, December 21, 2023

	General Inf	ormation	
Product Description			
(PC+ABS)-Blend; Vicat/B 120 tem	perature = 120°C; improved flow compare	d with T65	
General			
Material Status	Commercial: Active		
Regional Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America
Features	Good Flow		
RoHS Compliance	 RoHS Compliant 		
Automotive Specifications	FORD WSS-M4D684-B1FORD WSS-M4D924-B1GM GMW15581P-ABS+PC-T	 GM GMW15581P-ABS+PC-T2 Color: 901510 Black GM GMW15581P-ABS+PC-T5 GM GMW15581P-ABS+PC-T5 Color: 901510 Black 	 GM QK 000195 Type B Color: 901510 Black GM QK 002412 Color: 901510
ISO Shortname	• PC+ABS		

ASTM & ISO Properties ¹						
Physical Typical Value (English) Typical Value (SI) Test Metho						
1.13	g/cm³	1.13	g/cm³	ISO 1183		
18	cm³/10min	18	cm³/10min	ISO 1133		
				ISO 2577		
0.50 to 0.70	%	0.50 to 0.70	%			
0.50 to 0.70	%	0.50 to 0.70	%			
				ISO 62		
0.70	%	0.70	%			
0.20	%	0.20	%			
	1.13 18 0.50 to 0.70 0.50 to 0.70 0.70	<u> </u>	Typical Value (English) Typical Value 1.13 g/cm³ 1.13 18 cm³/10min 18 0.50 to 0.70 % 0.50 to 0.70 0.50 to 0.70 % 0.50 to 0.70 0.70 % 0.70	Typical Value (English) Typical Value (SI) 1.13 g/cm³ 1.13 g/cm³ 18 cm³/10min 18 cm³/10min 0.50 to 0.70 % 0.50 to 0.70 % 0.50 to 0.70 % 0.50 to 0.70 %		

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Mechanical	Typical Value	(English)	Typical Value	(SI)	Test Method
Tensile Modulus (73°F (23°C))	341000	psi	2350	MPa	ISO 527-1/1
Tensile Stress					ISO 527-2/50
Yield, 73°F (23°C)	7830	psi	54.0	MPa	
Break, 73°F (23°C)	6820	psi	47.0	MPa	
Tensile Strain					ISO 527-2/50
Yield, 73°F (23°C)	4.4	%	4.4	%	
Break, 73°F (23°C)	> 50	%	> 50	%	
Flexural Modulus ³ (73°F (23°C))	341000	psi	2350	MPa	ISO 178
Flexural Stress ³					ISO 178
3.5% Strain, 73°F (23°C)	10600	psi	73.0	MPa	
73°F (23°C)	12200	psi	84.0	MPa	
mpact	Typical Value	(English)	Typical Value	(SI)	Test Method
Charpy Notched Impact Strength					ISO 179/1eA
-22°F (-30°C)	17	ft·lb/in²	36	kJ/m²	
73°F (23°C)	24	ft·lb/in²	50	kJ/m²	
Notched Izod Impact Strength					ISO 180/A
-22°F (-30°C)	17	ft·lb/in²	35	kJ/m²	
73°F (23°C)	23	ft·lb/in²	48	kJ/m²	
Unnotched Izod Impact Strength					ISO 180
-22°F (-30°C)	No Break		No Break		
73°F (23°C)	No Break		No Break		
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Method
Deflection Temperature Under Load					
66 psi (0.45 MPa), Unannealed	252	°F	122	°C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	216	°F	102	°C	ISO 75-2/A
Vicat Softening Temperature					
	248	°F	120	°C	ISO 306/B120
	244	°F	118	°C	ISO 306/B50
CLTE					ISO 11359-2
Flow: 73 to 131°F (23 to 55°C)	4.4E-5	in/in/°F	8.0E-5	cm/cm/°C	
Transverse: 73 to 131°F (23 to 55°C)	4.7E-5	in/in/°F	8.5E-5	cm/cm/°C	
Electrical	Typical Value	(English)	Typical Value	(SI)	Test Method
Surface Resistivity	1.0E+16	ohms	1.0E+16	ohms	IEC 60093
Volume Resistivity (73°F (23°C))	1.0E+16	ohms·cm	1.0E+16	ohms·cm	IEC 60093
Electric Strength					IEC 60243-1
73°F (23°C), 0.0394 in (1.00 mm)	890	V/mil	35	kV/mm	
Relative Permittivity					IEC 60250
73°F (23°C), 100 Hz	3.10		3.10		
73°F (23°C), 1 MHz	3.00		3.00		
Dissipation Factor					IEC 60250
73°F (23°C), 100 Hz	3.0E-3		3.0E-3		
73°F (23°C), 1 MHz	8.5E-3		8.5E-3		

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Flammability	Typical Value	(English)	Typical Value	(SI)	Test Method
Flame Rating (0.03 in (0.9 mm))	НВ		НВ		UL 94
Oxygen Index ⁴	24	%	24	%	ISO 4589-2
Fill Analysis	Typical Value	(English)	Typical Value	(SI)	Test Method
Melt Viscosity ⁵ (500°F (260°C))	200	Pa·s	200	Pa·s	ISO 11443-A

Processing Information					
Injection	Typical Value	(English)	Typical Value	(SI)	
Drying Temperature - Dry Air Dryer	203 to 230	°F	95 to 110	°C	
Drying Time - Dry Air Dryer	4.0	hr	4.0	hr	
Suggested Max Moisture	< 0.020	%	< 0.020	%	
Suggested Shot Size	30 to 70	%	30 to 70	%	
Rear Temperature	428 to 446	°F	220 to 230	°C	
Middle Temperature	437 to 455	°F	225 to 235	°C	
Front Temperature	446 to 464	°F	230 to 240	°C	
Nozzle Temperature	491 to 509	°F	255 to 265	°C	
Processing (Melt) Temp	464 to 518	°F	240 to 270	°C	
Mold Temperature	158 to 194	°F	70 to 90	°C	
Back Pressure	725 to 2180	psi	5.00 to 15.0	MPa	
Vent Depth	9.8E-4 to 3.0E-3	in	0.025 to 0.075	mm	

Injection Notes

Peripheral Screw Speed: 0.05 - 0.2 m/s Standard Melt Temperature: 260°C

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

Notes

¹ Typical properties: these are not to be construed as specifications.

² 150x105x3mm,, MT 80°C

3 0.079 in/min (2.0 mm/min)

⁴ Procedure A

⁵ 1000s-1

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