Bayblend® T65 XF

Acrylonitrile Butadiene Styrene + PC

Bayer MaterialScience AG

IDES | Prospector

Product Description
(PC+ABS) blend; unreinforced; general purpose injection molding grade; Vicat/B 120 temperature = 120°C; improved flowability compared to T65.

General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East	• Europe
Features	• General Purpose	• Good Flow
Uses	• General Purpose	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value	Unit	Test Method
Density	1130	kg/m³	ISO 1183 [2]
Melt volume-flow rate (260°C/5.0 kg)	18.0	cm³/10min	ISO 1133 [2]
Molding Shrinkage			ISO 2577 [2]
Flow	0.50 to 0.70	%	
Across Flow	0.50 to 0.70	%	
Water Absorption			ISO 62 [2]
Saturation	0.70	%	
Equilibrium	0.20	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	2400	MPa	ISO 527-2 [2]
Tensile Stress			
Yield	54.0	MPa	ISO 527-2 [2]
Break	47.0	MPa	ISO 527-2/50
Tensile Strain			
Yield	4.4	%	ISO 527-2 [2]
Break	> 50	%	ISO 527-2/50

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C	35	kJ/m²	
23°C	45	kJ/m²	
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	No Break		
23°C	No Break		

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 [2]
0.45 MPa	122	°C	
1.8 MPa	102	°C	
Vicat Softening Temperature			
--	120	°C	ISO 306/B120
50°C/h, B (50N)	118	°C	ISO 306 [2]
CLTE			ISO 11359-2 [2]
Flow	0.000080	cm/cm/°C	
Transverse	0.000085	cm/cm/°C	

Electrical	Nominal Value	Unit	Test Method
Surface resistivity	1.0E+16	ohm	IEC 60093 [2]
Volume resistivity	1.0E+14	ohm·m	IEC 60093 [2]

Revision History
Document Created: 09 July 2012
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Electrical	Nominal Value	Unit	Test Method
Relative Permittivity			IEC 60250 [2]
100 Hz	3.10		
1 MHz	3.00		
Dissipation Factor			IEC 60250 [2]
100 Hz	0.0030		
1 MHz	0.0085		
Comparative tracking index	250		IEC 60112 [2]
Electric strength	35	kV/mm	IEC 60243-1 [2]
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating - UL (1.50 mm)	HB		UL 94
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Viscosity [3] (260°C)	200	Pa·s	ISO 11443

Notes

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

[2] Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

[3] 1000 1/s

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