Bayblend® T65 XF

Acrylonitrile Butadiene Styrene + PC

Bayer MaterialScience - Polycarbonates

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Technical Data

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		
Literature [1]	• Technical Datasheet (Chinese (Traditional)) • Technical Datasheet (Chinese) • Technical Datasheet (English) • Technical Datasheet (German)		
UL Yellow Card [2]	• E41613-100066623		
Search for UL Yellow Card	• Bayer MaterialScience - Polycarbonates • Bayblend®		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• General Purpose	• Good Flow	
Uses	• General Purpose		
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1130	kg/m³	ISO 1183 [4]
Melt volume-flow rate (260°C/5.0 kg)	18.0	cm³/10min	ISO 1133 [4]
Molding Shrinkage			ISO 2577 [4]
Flow	0.50 to 0.70	%	
Across Flow	0.50 to 0.70	%	
Water Absorption			ISO 62 [4]
Saturation	0.70	%	
Equilibrium	0.20	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile modulus	2400	MPa	ISO 527-2 [4]
Tensile Stress			
Yield	54.0	MPa	ISO 527-2 [4]
Break	47.0	MPa	ISO 527-2/50
Tensile Strain			
Yield	4.4	%	ISO 527-2 [4]
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 [4]
0.45 MPa	122	°C	
1.8 MPa	102	°C	

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Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	120	°C	ISO 306/B120
50°C/h, B (50N)	118	°C	ISO 306 [4]
CLTE			ISO 11359-2 [4]
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 [4]
Volume resistivity	1.0E+14	ohm·m	IEC 60093 [4]
Electric strength	35	kV/mm	IEC 60243-1 [4]
Relative Permittivity			IEC 60250 [4]
100 Hz	3.10		
1 MHz	3.00		
Dissipation Factor			IEC 60250 [4]
100 Hz	0.0030		
1 MHz	0.0085		
Comparative tracking index	250		IEC 60112 [4]
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm)	HB		UL 94
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Viscosity [5] (260°C)	200	Pa·s	ISO 11443

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

[5] 1000 1/s

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Where to Buy

Supplier

Bayer MaterialScience - Polycarbonates
Leverkusen, Germany
Telephone: +49-214-30-1
Web: http://plastics.bayer.com/

Distributor

Amco Polymers LLC
Telephone: 800-262-6685
Web: http://www.amcopolymers.com/
Availability: North America

Bay State Polymer
Telephone: 800-277-7797
Web: http://www.baystatepolymer.com/
Availability: North America

M. Holland Canada Company
Telephone: 905-665-1168
Web: http://www.mholland.com/
Availability: Canada

M. Holland Company
Telephone: 855-497-1403
Web: http://www.mholland.com/
Availability: Mexico, United States

PolyOne Distribution
PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.
Telephone: 800-894-4266
Web: http://polyonedistribution.com/
Availability: Global

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