Bayblend® T85 XF

Acrylonitrile Butadiene Styrene + PC

Bayer MaterialScience - Polycarbonates

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Technical Data

Product Description	
(PC+ABS) blend; unreinforced; injection molding grade; Vicat/B 120 temperature = 130 °C; better flow than T85.	

General			
Material Status	• Commercial: Active		
Literature [1]	• Technical Datasheet (Chinese (Traditional)) • Technical Datasheet (Chinese) • Technical Datasheet (English) • Technical Datasheet (German)		
UL Yellow Card [2]	• E41613-100066624 • E41613-232989		
Search for UL Yellow Card	• Bayer MaterialScience - Polycarbonates • Bayblend®		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	19.0	cm³/10min	ISO 1133
Molding Shrinkage [4]			ISO 2577
Across Flow : 260°C, 3.00 mm	0.50 to 0.70	%	
Flow : 260°C, 3.00 mm	0.50 to 0.70	%	
Water Absorption			ISO 62
Saturation, 23°C	0.70	%	
Equilibrium, 23°C, 50% RH	0.20	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2300	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	54.0	MPa	
Break, 23°C	50.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	4.7	%	
Break, 23°C	> 50	%	

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C	35	kJ/m²	
23°C	48	kJ/m²	
Unnotched Izod Impact Strength			ISO 180
-30°C	No Break		
23°C	No Break		

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	127	°C	ISO 75-2/B
1.8 MPa, Unannealed	109	°C	ISO 75-2/A
Vicat Softening Temperature			
--	128	°C	ISO 306/B50
--	130	°C	ISO 306/B120

Form No. TDS-102717-en

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Thermal	Nominal Value	Unit	Test Method
CLTE			ISO 11359-2
Flow : 23 to 55°C	0.000075	cm/cm/°C	
Transverse : 23 to 55°C	0.000080	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+16	ohm	IEC 60093
Volume Resistivity	1.0E+16	ohm·cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.10		
23°C, 1 MHz	3.00		
Dissipation Factor			IEC 60250
100 Hz	0.0020		
1 MHz	0.0085		
Comparative Tracking Index (Solution A)	225	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.850 mm)	HB		UL 94
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Viscosity (260°C, 1000 sec^-1)	250	Pa·s	ISO 11443-A

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] 150x105x3 mm, 80°C MT

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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
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Telephone: 800-894-4266
Web: http://polyonedistribution.com/
Availability: Global

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