

Bayblend® T45 PG

Polycarbonate + ABS

Covestro - Polycarbonates

PROSPECTOR®

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Technical Data

Product Description

(ABS+PC) blend; Vicat/B 120 temperature = 112 °C; for electroplating applications.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (Chinese (Traditional)) • Technical Datasheet (Chinese) • Technical Datasheet (English) • Technical Datasheet (German) • Technical Datasheet (Japanese)
UL Yellow Card ²	• E41613-232985
Search for UL Yellow Card	• Covestro - Polycarbonates • Bayblend®
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Features	• Platable
RoHS Compliance	• RoHS Compliant

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density (73°F (23°C))	1.10 g/cm ³	1.10 g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	0.732 in ³ /10min	12.0 cm ³ /10min	ISO 1133
Molding Shrinkage ⁴			ISO 2577
Across Flow : 500°F (260°C), 0.118 in (3.00 mm)	0.55 to 0.75 %	0.55 to 0.75 %	
Flow : 500°F (260°C), 0.118 in (3.00 mm)	0.55 to 0.75 %	0.55 to 0.75 %	
Water Absorption			ISO 62
Saturation, 73°F (23°C)	0.70 %	0.70 %	
Equilibrium, 73°F (23°C), 50% RH	0.20 %	0.20 %	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus (73°F (23°C))	305000 psi	2100 MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 73°F (23°C)	7110 psi	49.0 MPa	
Break, 73°F (23°C)	5800 psi	40.0 MPa	
Tensile Strain			ISO 527-2/50
Yield, 73°F (23°C)	3.7 %	3.7 %	
Break, 73°F (23°C)	> 50 %	> 50 %	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength			ISO 180/A
-22°F (-30°C)	17 ft·lb/in ²	36 kJ/m ²	
73°F (23°C)	19 ft·lb/in ²	40 kJ/m ²	
Unnotched Izod Impact Strength			ISO 180
-22°F (-30°C)	No Break	No Break	
73°F (23°C)	No Break	No Break	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	234 °F	112 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	203 °F	95.0 °C	ISO 75-2/A
Vicat Softening Temperature			
--	230 °F	110 °C	ISO 306/B50
--	234 °F	112 °C	ISO 306/B120



Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
CLTE			ISO 11359-2
Flow : 73 to 131°F (23 to 55°C)	4.7E-5 in/in/°F	8.5E-5 cm/cm/°C	
Transverse : 73 to 131°F (23 to 55°C)	5.0E-5 in/in/°F	9.0E-5 cm/cm/°C	
Electrical	Nominal Value (English)	Nominal 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	3.5E-3	3.5E-3	
73°F (23°C), 1 MHz	8.5E-3	8.5E-3	
Comparative Tracking Index (Solution A)	275 V	275 V	IEC 60112
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.0335 in (0.850 mm))	HB	HB	UL 94
Fill Analysis	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Viscosity ⁵ (500°F (260°C))	200 Pa·s	200 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 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 150x105x3 mm, 80°C MT

⁵ 1000/s



Where to Buy

Supplier

Covestro - Polycarbonates

Leverkusen, Germany

Telephone: +49-214-6009-2000

Web: <http://www.plastics.covestro.com/>

Distributor

ALBIS Plastic

ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.

Telephone: +49-40-78105-0

Web: <http://www.albis.com/>

Availability: Algeria, Austria, Belgium, China, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hong Kong, Hungary, Ireland, Latvia, Lithuania, Luxembourg, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Slovakia, Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom

Amco Polymers

Telephone: 800-262-6685

Web: <http://www.amcopolymers.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

