Bayblend® T65 HI

Polycarbonate + ABS

Covestro - Polycarbonates

Message:

(PC+ABS) blend; unreinforced; grade with improved low-temperature impact strength and chemical resistance for automotive parts; also suitable for extrusion/extrusion blow molding and electroplating applications; Vicat/B 120 temperature = 120 °C.

General Information	
Features	Good Chemical Resistance Low Temperature Impact Resistance Platable
Uses	Automotive Applications
RoHS Compliance	RoHS Compliant
Processing Method	Extrusion Extrusion Blow Molding

Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.11	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	5.00	cm³/10min	ISO 1133
Molding Shrinkage [1]			ISO 2577
Across Flow : 260°C, 3.00 mm	0.65 to 0.85	%	
Flow : 260°C, 3.00 mm	0.65 to 0.85	%	
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)	2000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	48.0	MPa	
Break, 23°C	46.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	4.5	%	
Break, 23°C	> 50	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength			ISO 180/A
-30°C	38	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	120	°C	ISO 75-2/B
1.8 MPa, Unannealed	99.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	118	°C	ISO 306/B50
--	120	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 55°C	9.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	9.5E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+16	ohms·cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.00		
23°C, 1 MHz	2.90		
Dissipation Factor			IEC 60250
23°C, 100 Hz	2.5E-3		
23°C, 1 MHz	8.5E-3		
Comparative Tracking Index (Solution A)	275	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.850 mm, Bayer Test)	HB		UL 94
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Viscosity [2] (260°C)	300	Pa·s	ISO 11443-A
NOTE			
1.	150x105x3 mm, 80°C MT		
2.	1000/s		

Recommended distributors for this material

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