

PC-ABSCOM™ B1000

Polycarbonate + ABS

Polymer Compounders Limited

Message:

PC-ABSCOM B1000 is a flame retardant PC/ABS alloy with a UL94 rating tested to V0 at 1.5mm. Typical applications include electrical enclosures and safety equipment.

General Information			
Features	Flame Retardant		
Uses	Electrical/Electronic Applications		
	Safety Equipment		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/5.0 kg)	28	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Water Absorption			ISO 62
Saturation, 23°C	0.60	%	
Equilibrium, 23°C, 50% RH	0.22	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2/1
Tensile Stress (Yield)	45.0	MPa	ISO 527-2/50
Tensile Strain			
Yield	4.1	%	ISO 527-2/50
Break	60	%	ISO 527-2
Flexural Stress	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	15	kJ/m ²	
23°C	50	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C)	45	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	103	°C	ISO 75-2/Be
1.8 MPa, Unannealed	90.0	°C	ISO 75-2/Ae
Vicat Softening Temperature	112	°C	ISO 306/B50
CLTE - Flow	8.0E-5	cm/cm/°C	ISO 11359-2

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.50 mm	V-0	
3.20 mm	V-0	
Injection	Nominal Value	Unit
Drying Temperature	90.0	°C
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	250	°C
Mold Temperature	60.0	°C
Injection Velocity	60	mm/sec

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