

PC-ABSCOM™ B100

Polycarbonate + ABS

Polymer Compounders Limited

Message:

PC-ABSCOM B100 is a PC/ABS alloy with superior heat distortion and impact properties. Typical applications include mobile phone housing and general enclosures.

General Information			
Features	Good Impact Resistance		
Uses	Cell Phones		
	Housings		
Agency Ratings	FDA Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	14	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Water Absorption			ISO 62
Saturation, 23°C	0.70	%	
Equilibrium, 23°C, 50% RH	0.22	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2/1
Tensile Stress			
Yield	49.0	MPa	ISO 527-2/50
Yield, -40°C	63.0	MPa	ISO 527-2
Yield, 80°C	19.0	MPa	ISO 527-2
Tensile Strain			
Yield	4.3	%	ISO 527-2/50
Yield, -20°C	6.3	%	ISO 527-2
Break	35	%	ISO 527-2
Flexural Modulus (23°C)	2100	MPa	ISO 178
Flexural Stress	66.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-20°C	30	kJ/m ²	
23°C	38	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	111	°C	ISO 75-2/B
1.8 MPa, Unannealed	97.0	°C	ISO 75-2/Ae
Vicat Softening Temperature	110	°C	ISO 306/B50
CLTE - Flow	9.5E-4	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.50 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	95.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	260	°C	
Mold Temperature	70.0	°C	
Injection Velocity	60	mm/sec	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

