

PC-ABSCOM™ B300

Polycarbonate + ABS

Polymer Compounders Limited

Message:

PC-ABSCOM B300 is a PC/ABS alloy with superior heat distortion and impact properties. Typical applications include automotive interior and safety equipment housings. Honda HES D2501 approved.

General Information			
Features	Good Impact Resistance		
Uses	Automotive Interior Parts		
	Housings		
	Safety Equipment		
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)	18	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	50.0	MPa	ISO 527-2/50
Yield, -40°C	63.0	MPa	ISO 527-2
Yield, 80°C	20.0	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)	2200	MPa	ISO 178
Flexural Stress	66.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	47	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C)	48	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	131	°C	ISO 75-2/B
1.8 MPa, Unannealed	110	°C	ISO 75-2/Ae
Vicat Softening Temperature	130	°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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