

Material Type	PC/ABS	Trademark	Grade Name	CB3110
Feature		•		
Material Standard		• XXXXXX		
Availability		• Asian-Pacific, America		
Processing method		• Injection Molding		
Appearance		• Color is Optional		
Applications		• Automotive and Engineering parts		

## General Properties

No.	Properties	Unit	Typical Value	Method	Test condition
1	Density	g/mL	1.11	ISO 1183	23 °C
2	Mold Shrinkage	%	0.6	ISO 294	23 °C, 48h
3	Tensile Stress, Yield	MPa	49	ISO 527	50 mm/mm
4	Tensile Strain, Yield	%	5	ISO 527	50 mm/mm
5	Tensile Stress, Break	MPa	41	ISO 527	50mm/min
6	Tensile Strain, Break	%	50	ISO 527	50mm/min
7	Young's Modulus	MPa	2,350	ISO 527	1mm/min
8	Poisson's Ratio		0.34	ISO 527	1mm/min
9	Flexural Strength	MPa	80	ISO 178	2 mm/mm
10	Flexural Modulus	MPa	2,350	ISO 178	2 mm/mm
11	Notched Impact Strength	kJ/m <sup>2</sup>	45	ISO 179	23 °C
12	Notched Impact Strength	kJ/m <sup>2</sup>	22	ISO 179	-30°C
13	Melt Flow Index	g/10min	23	ISO 1133	260°C, 5kg
14	Vicat Softening Temperature	°C	112	ISO 306	5kg, 50°C/h
15	Heat Deflection Temperature	°C	93	ISO 75	1.8 MPa
16	Heat Deflection Temperature	°C	112	ISO 75	0.45 MPa
17	Thermal Conductivity	W/m K	0.24	ISO 8302	30~280°C
18	Specific Heat Capacity	J/kg K	1240	ISO 11357-4	23°C

## Processing Conditions

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Drying condition	90-100 °C, 2-4 h
Molding Temp.	230 - 260 °C (F), 220 - 240 °C (M), 210 - 230 °C (B)
Melt Temp.	230 - 270 °C
Mold Temp.	50 - 70 °C
Screw Speed	40 - 70 rpm
Injection Pressure	70 - 110 MPa
Back Pressure	0.40 – 0.70 MPa

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**Notes:** This technical data in the product brochures are typical test results for reference, and should not be defined as minimum value.