

# Technical Datasheet

Material Type	PC	Trademark	Grade Name	PC-01
Feature		<ul style="list-style-type: none"> <li>High heat resistance</li> <li>High impact strength</li> </ul>		
Material Standard		<ul style="list-style-type: none"> <li></li> </ul>		
Availability		<ul style="list-style-type: none"> <li>Asian-Pacific, America</li> </ul>		
Processing method		<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>		
Appearance		<ul style="list-style-type: none"> <li>Color is Optional</li> </ul>		
Applications		<ul style="list-style-type: none"> <li>Automotive and Engineering parts</li> </ul>		

## General Properties

No.	Properties	Unit	Typical Value	Method	Test condition
1	Density	g/cm <sup>3</sup>	1.20	ISO 1183	23 °C
2	Molding Shrinkage	%	0.6 – 0.8	ISO 294-4	23 °C, 48h
3	Tensile Stress, Yield	MPa	65	ISO 527	50 mm/mm
4	Tensile Stain, Yield	%	6	ISO 527	50 mm/mm
5	Tensile Stress, Break	MPa	52	ISO 527	50 mm/mm
6	Tensile Stain, Break	%	≥50	ISO 527	50 mm/mm
7	Young's Modulus	MPa	2300	ISO 527	1 mm/mm
8	Flexural Strength	MPa	95	ISO 178	2 mm/mm
9	Flexural Modulus	MPa	2300	ISO 178	2 mm/mm
10	Notched Impact Strength	kJ/m <sup>2</sup>	75	ISO 179	23 °C
11	Notched Impact Strength	kJ/m <sup>2</sup>	15	ISO 179	-30 °C
12	Melt Flow Index	g/10min	12	ISO 1133	260 °C, 5Kg
13	Vicat Softening Temperature	°C	145	ISO 306	5Kg, 50 °C/h
14	Heat Deflection Temperature	°C	126	ISO 75	1.8 MPa, 120 °C/h
15	Heat Deflection Temperature	°C	136	ISO 75	0.45 MPa, 120 °C/h
16	Flammability		HB	UL 94	3 mm

## Processing Conditions

---

Drying condition	115 - 125 °C, 3 - 4 h
Molding Temp.	280 - 320 °C (F), 260 - 290 °C (M), 240 - 260 °C (B)
Nozzle Temp.	280 - 320 °C
Mold Temp.	70 - 90 °C
Screw Speed	40 - 70 rpm
Injection Pressure	70 - 150 MPa
Back Pressure	0.35 - 0.7 MPa

---

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