

PC20006JBK

Polycarbonate/ABS compound

Special Characteristics : PC20006JBK is a product of injection grade of black coloring PC/ABS compound which is specially designed for good heat and high impact resistance. It also exhibits high ductility and tensile strength as well as suitable for outdoor applications.

Typical Applications : Injection molded part for outdoor uses

Typical Properties :

Properties	PC20006JBK	Unit	Test Method
Physical Properties			
Melt Flow Rate (260°C, 5 kg)	17	g/10 min	ISO 1133
Density	1.13	g/cm ³	ISO 1183
Rockwell Hardness	108	R-Scale	ISO 2039
Mechanical Properties			
Tensile Strength at Yield	52	MPa	ISO 527
Elongation at Break	50	%	ISO 527
Tensile Modulus	2,300	MPa	ISO 527
Flexural Strength	75	MPa	ISO 178
Flexural Modulus	2,300	MPa	ISO 178
Notched Charpy Impact Strength at 23°C	45	kJ/m ²	ISO 179
Notched Charpy Impact Strength at -30°C	25	kJ/m ²	ISO 179
Thermal Properties			
Heat Deflection Temperature at 0.45 MPa	119	°C	ISO 75
Heat Deflection Temperature at 1.80 MPa	102	°C	ISO 75
Vicat Softening Point at 50 N	120	°C	ISO 306

Recommendation:

For Injection Molding

- Drying conditions: 80°C at least 4 hrs before using
- Melt temperature: 210–250°C
- Mold temperature: 55–70°C
- Screw speed for screw diameter of 35 mm: 30–60 rpm
- Back pressure 10–15 MPa