

C1803PJ-04

Polypropylene Compound

Special Characteristics : C1803PJ-04 is a product of injection grade of black coloring PP with talc compound which is specially designed for good heat and impact resistance. It also exhibits high ductility and tensile strength as well as suitable for automotive applications.

Typical Applications : Injection molded part for outdoor uses

Color: Black (K701)

Typical Properties:

Properties	C1803PJ-04	Unit	Test Method
Physical Properties			
Melt Flow Rate (230°C, 2.16 Kg)	7	g/10 min	ISO 1133
Density	1.04	g/cm ³	ISO 1183
Mold Shrinkage (Average MD/TD)	1.02	%	ISO 2577
Mechanical Properties			
Tensile Strength	25	MPa	ISO 527
Elongation	15	%	ISO 527
Tensile Modulus	2,400	%	ISO 527
Flexural Strength	36	MPa	ISO 178
Flexural Modulus	2,200	MPa	ISO 178
Notched Izod Impact Strength at 23 °C	5	kJ/m ²	ISO 180
Notched Charpy Impact Strength at 23 °C	5	kJ/m ²	ISO 179
Thermal Properties			
Heat Deflection Temperature at 0.45 MPa	112	°C	ISO 75
Heat Deflection Temperature at 1.80 MPa	62	°C	ISO 75

Recommendation:

For injection molding

- Melt temperature: 190–240°C*
- Mold temperature: 45–65°C

* However, the actual processing conditions depend on mold design, power of machine, equipment, and other environments.

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Note : Properties reported here are typical values of the product, not to be considered as specifications.

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