PP07605JBK

Polypropylene Compound

Special Characteristics : PP07605JBK is a product of injection grade of PP with UV additive compound which is specially designed for UV resistance. It also exhibits high ductility and tensile strength as well as suitable for automotive applications.

Typical Application : Injection molded part for outdoor uses

Color: Black

Typical Properties :

Properties	PP07605JBK	Unit	Test Method
Physical Properties			
Melt Flow Rate (230°C, 2.16 kg)	8	g/10 min	ASTM D1238
Density	0.91	g/cm^3	ASTM D792
Molding Shrinkage Ratio		%	ASTM D955
- Machine Direction (MD)	1.2 ± 0.1		
- Transverse Detection (TD)	1.2 ± 0.1		
Mechanical and Thermal properties			
Tensile Strength at Yield	20	MPa	ASTM D638
Elongation at Break	200	%	ASTM D638
Flexural Strength	43	MPa	ASTM D790
Flexural Modulus	1240	MPa	ASTM D790
Notched Izod Impact Strength at 23˚C	108	J/m	ASTM D256
Notched Izod Impact Strength at -20˚C	45	J/m	ASTM D256
Modified Dupont Impact Strength (3.0 mm, 23˚C)[1]	34	J	Internal
Modified Dupont Impact Strength (3.0 mm, -20˚C)[2]	22	J	Internal
Heat Deflection Temperature at 0.45 MPa	120	˚C	ASTM D648
Heat Deflection Temperature at 1.80 MPa	60	˚C	ASTM D648
Hardness	82	R-scale	ASTM D785

PP07605JBK

Polypropylene Resin

Properties (Cont.)	PP07605JBK	Unit	Test Method
Water Resistance Properties			
Xenon-arc Source (XWOM)			ISO 4892-2
@ 670 kJ/m2, 532 hrs.			
- Color Difference	1.2	dE	
- Gloss Retention Ratio	≥ 95	%	
- Appearance	No appearance defect such as cracks		
@ 3,350 kJ/m2, 2,660 hrs.	or blushing		
- Appearance	No conspicuous discoloration		
	No cracks when checked at 30		
	magnifications		

1 Thickness of test specimen: 3 mm, Weight: 3 kg, High: 200 cm

2 Thickness of test specimen: 3 mm, Weight: 3 kg, High: 65 cm

3 Measure by internal plaque

Recommendation :

For injection molding

- Melt temperature*: 190–250˚C
- Mold temperature: 45–65˚C
- Screw speed for screw diameter of 35 mm: 30–60 rpm
- Back pressure: 5–10 MPa
- Drying condition: 80˚C at least 2 hours before using.

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