

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 Applications : Injection molded part for outdoor uses

Typical Properties :

Properties	PP07605JBK	Unit	Test Method
Physical Properties			
Melt Flow Rate (230°C, 2.16 kg)	8	g/10 min	ISO 1133
Density	0.91	g/cm ³	ISO 1183
Molding Shrinkage		%	ISO 294
- Machine Direction (MD)	1.2 ± 0.1		
- Transverse Detection (TD)	1.2 ± 0.1		
Mechanical and Thermal properties			
Tensile Strength at Yield	20	MPa	ISO 527
Elongation at Break	200	%	ISO 527
Flexural Strength	35	MPa	ISO 178
Flexural Modulus	1240	MPa	ISO 178
Notched Izod Impact Strength at 23°C	108	J/m	ISO 180
Notched Izod Impact Strength at -20°C	60	J/m	ISO 180
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	ISO 75
Heat Deflection Temperature at 1.80 MPa	60	°C	ISO 75
Hardness (Unannealed)	82	R-scale	ISO 2039

PP07605JBK

Polypropylene Resin

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

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.

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