

Hanwha Total PP KB71

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

KB71 is a polypropylene compound that features superior anti-fungus with possessing balanced strength and impact strength due to use of high-quality base resins.

Outstanding features of this resin are high flowability, superior processability and high resistance to thermal discoloration and to light with excellent external finishes and high anti-fungus properties.

KB71 has passed anti-fungus tests in Korea and Japan, and is widely used for electronic parts and kitchen utensils requiring anti-fungus characteristics.

General Information	
Features	Good dimensional stability Antibacterial property Impact resistance, good Good UV resistance Workability, good Good strength High liquidity Heat resistance, high Medium hardness
Uses	Kitchen utensils Electrical components Container
Forms	Particle
Processing Method	Extrusion Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.910	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	27	g/10 min	ASTM D1238
Molding Shrinkage - Flow (2.00 mm)	1.4 - 1.6	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	91		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	28.4	MPa	ASTM D638
Tensile Elongation ² (Break)	50	%	ASTM D638
Flexural Modulus ³	1470	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	125	°C	ASTM D648
Injection	Nominal Value	Unit	
Rear Temperature	170 - 180	°C	
Middle Temperature	180 - 200	°C	
Front Temperature	180 - 200	°C	
Nozzle Temperature	190 - 210	°C	
Mold Temperature	40.0 - 70.0	°C	
Injection Pressure	39.2 - 78.5	MPa	
Back Pressure	0.490 - 1.96	MPa	
Injection instructions			
Injection Speed: 50 to 80 %			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		

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