# Kingfa HG-172

## Polypropylene

## Kingfa

#### Message:

Kingfa HG-172 is a polypropylene material, which contains a 30% filler. This product is available in North America or Asia Pacific.

The main features of Kingfa HG-172 are:

flame retardant/rated flame

High stiffness

high gloss

Heat resistance

Typical application areas include:

electrical appliances

home apps

Filer / Reinforcement filer / 20% filler by weight  Fatures Rigidity, high Highlight Heat resistance, medium February Files Fi	General Information			
Highlight Heat resistance, medium  West Promis Particle  Physical Nominal Value Unit Test Method Specific Gravity 1.12 g/cm³ ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 25 g/10 min ASTM D1238  Molding Shrinkage - Flow (23°C) 1.1 - 1.3 % 9/10 min ASTM D1238  Molding Shrinkage - Flow (23°C) 1.1 - 1.3 % 9/10 min ASTM D793  Meth Mass-Flow Rate (MFR) (230°C/2.16 kg) 1.1 - 1.3 % 1.1 -	Filler / Reinforcement	Filler, 30% filler by weight		
Heat resistance, medium  Wess Home appliance components Household goods  Forms Particle  Physical Nominal Value Unit Test Method Specific Gravity 1.12 g/0 min ASTM D1238  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 25 g/10 min ASTM D1238  Molding Shrinkage - Flow (23°C) 1.1-1.3 % ASTM D955  Hardness Nominal Value Unit Test Method Rockwell Hardness (R-Scale) 9/10 min ASTM D785  Mechanical Nominal Value Unit Test Method Rockwell Hardness (R-Scale) 9/10 min ASTM D785  Mechanical Nominal Value Unit Test Method Rockwell Hardness (R-Scale) 9/10 min ASTM D785  Mechanical Nominal Value Unit Test Method  Tensile Elongation 2 (Parak, 23°C, Injection Molded) 20.0 % ASTM D638  Flexural Modulus 3 (23°C, Injection Molded) 1320 MPa ASTM D638  Flexural Strength 4 (23°C, Injection Molded) 1320 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 13.0 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 13.0 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C, 3.20 mm, Injection Molded) 13.0 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C, 3.20 mm, Injection Molded) 13.0 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C, 3.20 mm, Injection Molded) 13.0 MPa ASTM D790  Impact Nominal Value Unit Test Method	Features	Rigidity, high		
Home appliance components Household goods  Forms Particle  Physical Nominal Value Unit Test Method  Specific Gravity 1.1-2 g/cm² ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16' kg) 25 g/10 min ASTM D1238  Molding Shrinkage - Flow (23°C) 1.1-1.3 % ASTM D955  Hardness Nominal Value Unit Test Method  Rockwell Hardness (R-Scale) 94 Test Method  Tensile Strength 1 (23°C, Injection Molded) 2.0 MPa ASTM D785  Mechanical Nominal Value Unit Test Method  Tensile Elongation 2 (Break, 23°C, Injection Molded) 200 MPa ASTM D638  Tensile Strength 1 (23°C, Injection Molded) 1320 MPa ASTM D638  Flexural Strength 4 (23°C, Injection Molded) 1320 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 1310 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C, 320 mm, Injection Molded) 1310 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C, 320 mm, Injection Molded) 131 Mpa ASTM D790  Rockhed Izod Impact (23°C, 320 mm, Injection Molded) 131 Mpa ASTM D796  Rockhed Izod Impact (23°C, 320 mm, Injection Molded) 131 Mpa ASTM D256		Highlight		
Forms Particle  Physical Nominal Value Unit Test Method Specific Gravity 1.12 g/cm³ ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 25 g/10 min ASTM D1238  Molding Shrinkage - Flow (23°C) 1.1 - 1.3 % ASTM D955  Hardness Nominal Value Unit Test Method Rockwell Hardness (R-Scale) 94 Test Method  Mominal Value Unit Test Method  Tensile Strength 1 (23°C, Injection Molded) 2.0 MPa ASTM D638  Tensile Elongation 2 (Break, 23°C, Injection Molded) 200 % ASTM D638  Flexural Modulus 3 (23°C, Injection Molded) 3120 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection MPa ASTM D790  Flexural Stre		Heat resistance, medium		
Forms Particle  Physical Nominal Value Unit Test Method Specific Gravity 1.12 g/cm³ ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 25 g/10 min ASTM D1238  Molding Shrinkage - Flow (23°C) 1.1 - 1.3 % ASTM D955  Hardness Nominal Value Unit Test Method Rockwell Hardness (R-Scale) 94 Test Method  Mominal Value Unit Test Method  Tensile Strength 1 (23°C, Injection Molded) 2.0 MPa ASTM D638  Tensile Elongation 2 (Break, 23°C, Injection Molded) 200 % ASTM D638  Flexural Modulus 3 (23°C, Injection Molded) 3120 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 310 MPa ASTM D790  Flexural Strength 4 (23°C, Injection MPa ASTM D790  Flexural Stre				
Forms Particle  Physical Nominal Value Unit Test Method  Specific Gravity 1.12 g/cm³ ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 25 g/10 min ASTM D1238  Molding Shrinkage - Flow (23°C) 1.1 - 1.3 % ASTM D955  Hardness Nominal Value Unit Test Method  Rockwell Hardness (R-Scale) 94 Test Method  Rockwell Hardness (R-Scale) 100 Mpa ASTM D785  Mechanical Nominal Value Unit Test Method  Tensile Strength 1 (23°C, Injection Molded) 22.0 Mpa ASTM D638  Tensile Elongation 2 (Break, 23°C, Injection Molded) 200 % ASTM D638  Flexural Modulus 3 (23°C, Injection Molded) 1320 Mpa ASTM D638  Flexural Strength 4 (23°C, Injection Molded) 1320 Mpa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 1320 Mpa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 1310 Mpa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 1310 Mpa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C, 3.20 mm, Injection Molded) 1310 ASTM D256  Themal Nominal Value Unit Test Method	Uses	Home appliance components		
Physical Nominal Value Unit Test Method  Specific Gravity 1.12 g/cm³ ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 25 g/10 min ASTM D1238  Molding Shrinkage - Flow (23°C) 1.1 - 1.3 % ASTM D955  Hardness Nominal Value Unit Test Method  Rockwell Hardness (R-Scale) 94 ASTM D785  Mechanical Nominal Value Unit Test Method  Tensile Strength¹ (23°C, Injection Molded) 22.0 MPa ASTM D638  Tensile Elongation² (Break, 23°C, Injection Molded) 200 % ASTM D638  Flexural Modulus³ (23°C, Injection Molded) 1320 MPa ASTM D790  Flexural Strength⁴ (23°C, Injection Molded) 131.0 MPa ASTM D790  Impact Nominal Value Unit Test Method  MPa ASTM D790  Impact Nominal Value Unit Test Method  MPa ASTM D790  Impact Nominal Value Unit Test Method		Household goods		
Physical Nominal Value Unit Test Method  Specific Gravity 1.12 g/cm³ ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 25 g/10 min ASTM D1238  Molding Shrinkage - Flow (23°C) 1.1 - 1.3 % ASTM D955  Hardness Nominal Value Unit Test Method  Rockwell Hardness (R-Scale) 94 ASTM D785  Mechanical Nominal Value Unit Test Method  Tensile Strength¹ (23°C, Injection Molded) 22.0 MPa ASTM D638  Tensile Elongation² (Break, 23°C, Injection Molded) 200 % ASTM D638  Flexural Modulus³ (23°C, Injection Molded) 1320 MPa ASTM D790  Flexural Strength⁴ (23°C, Injection Molded) 131.0 MPa ASTM D790  Impact Nominal Value Unit Test Method  MPa ASTM D790  Impact Nominal Value Unit Test Method  MPa ASTM D790  Impact Nominal Value Unit Test Method				
Specific Gravity 1.12 g/cm³ ASTM D792  Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) 25 g/10 min ASTM D1238  Molding Shrinkage - Flow (23°C) 1.1 - 1.3 % ASTM D955  Hardness Nominal Value Unit Test Method  Rockwell Hardness (R-Scale) 94 ASTM D785  Mechanical Nominal Value Unit Test Method  Tensile Strength¹ (23°C, Injection Molded) 22.0 MPa ASTM D638  Tensile Elongation² (Break, 23°C, Injection Molded) 200 MPa ASTM D638  Flexural Modulus³ (23°C, Injection Molded) 1320 MPa ASTM D790  Flexural Strength⁴ (23°C, Injection Molded) 1320 MPa ASTM D790  Impact Nominal Value Unit Test Method  MPa ASTM D790  Impact Nominal Value Unit Test Method  Nominal Value Unit Test Method  Test Method  MPa ASTM D790  Impact Nominal Value Unit Test Method  Nominal Value Unit Test Method	Forms	Particle		
Melt Mass-Flow Rate (MFR) (23°C/2.16 kg) 25 g/10 min ASTM D1238  Molding Shrinkage - Flow (23°C) 1.1 - 1.3 % ASTM D955  Hardness Nominal Value Unit Test Method  Rockwell Hardness (R-Scale) 94 ASTM D785  Mechanical Nominal Value Unit Test Method  Tensile Strength 1 (23°C, Injection Molded) 2.0 MPa ASTM D638  Tensile Elongation 2 (Break, 23°C, Injection Molded) 200 % ASTM D638  Flexural Modulus 3 (23°C, Injection Molded) 1200 MPa ASTM D638  Flexural Strength 4 (23°C, Injection Molded) 1320 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 1310 MPa ASTM D790  Impact Nominal Value Unit Test Method  Nominal Value Unit Test Method  Test Method  Nominal Value Unit Test Method  Test Method	Physical	Nominal Value	Unit	Test Method
kg)25g/10 minASTM D1238Molding Shrinkage - Flow (23°C)1.1 - 1.3%ASTM D955HardnessNominal ValueUnitTest MethodRockwell Hardness (R-Scale)94ASTM D785MechanicalNominal ValueUnitTest MethodTensile Strength 1 (23°C, Injection Molded)22.0MPaASTM D638Tensile Elongation 2 (Break, 23°C, Injection Molded)200%ASTM D638Flexural Modulus 3 (23°C, Injection Molded)1320MPaASTM D790Molded)31.0MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (23°C, 3.20 mm, Injection Molded)83J/mASTM D256ThermalNominal ValueUnitTest Method	Specific Gravity	1.12	g/cm³	ASTM D792
Molding Shrinkage - Flow (23°C) 1.1 - 1.3 % % ASTM D955 Hardness Nominal Value Unit Test Method Rockwell Hardness (R-Scale) 94	, , , , , ,			
Hardness (R-Scale) 94		25	g/10 min	ASTM D1238
Rockwell Hardness (R-Scale)  94  Mechanical  Nominal Value  Unit  Test Method  Tensile Strength 1 (23°C, Injection Molded)  22.0  MPa  ASTM D638  Tensile Elongation 2 (Break, 23°C, Injection Molded)  200  %  ASTM D638  Flexural Modulus 3 (23°C, Injection Molded)  MPa  ASTM D790  Flexural Strength 4 (23°C, Injection Molded)  Inpact  Nominal Value  MPa  ASTM D790  ASTM D790  MPa  ASTM D790  Impact  Nominal Value  Unit  Test Method  Test Method  Nominal Value  Unit  Test Method  Test Method  Test Method  Thermal	Molding Shrinkage - Flow (23°C)	1.1 - 1.3	%	ASTM D955
MechanicalNominal ValueUnitTest MethodTensile Strength 1 (23°C, Injection Molded)22.0MPaASTM D638Tensile Elongation 2 (Break, 23°C, Injection Molded)200%ASTM D638Flexural Modulus 3 (23°C, Injection Molded)1320MPaASTM D790Flexural Strength 4 (23°C, Injection Molded)31.0MPaASTM D790ImpactNominal ValueUnitTest MethodNotched Izod Impact (23°C, 3.20 mm, Injection Molded)83J/mASTM D256ThermalNominal ValueUnitTest Method	Hardness	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (23°C, Injection Molded) 22.0 MPa ASTM D638  Tensile Elongation <sup>2</sup> (Break, 23°C, Injection Molded) 200 % ASTM D638  Flexural Modulus <sup>3</sup> (23°C, Injection Molded) 1320 MPa ASTM D790  Flexural Strength <sup>4</sup> (23°C, Injection Molded) 31.0 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C, 3.20 mm, Injection Molded) 83 J/m ASTM D256  Thermal Nominal Value Unit Test Method	Rockwell Hardness (R-Scale)	94		ASTM D785
Tensile Elongation <sup>2</sup> (Break, 23°C, Injection Molded)  Flexural Modulus <sup>3</sup> (23°C, Injection Molded)  Flexural Strength <sup>4</sup> (23°C, Injection Molded)  Inpact  Nominal Value  Notched Izod Impact (23°C, 3.20 mm, Injection Molded)  Nominal Value  Nominal Value  Nominal Value  Unit  Test Method  Test Method  Test Method	Mechanical	Nominal Value	Unit	Test Method
Molded) 200 % ASTM D638  Flexural Modulus 3 (23°C, Injection Molded) 1320 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 31.0 MPa ASTM D790  Impact Notiched Izod Impact (23°C, 3.20 mm, Injection Molded) 83 J/m ASTM D256  Thermal Nominal Value Unit Test Method	Tensile Strength <sup>1</sup> (23°C, Injection Molded)	22.0	MPa	ASTM D638
Flexural Modulus <sup>3</sup> (23°C, Injection Molded)  Flexural Strength <sup>4</sup> (23°C, Injection Molded)  Flexural Strength <sup>4</sup> (23°C, Injection Molded)  Impact  Nominal Value  MPa  ASTM D790  ASTM D790  Test Method  Notched Izod Impact (23°C, 3.20 mm, Injection Molded)  Nominal Value  Unit  Test Method  Thermal				
Molded) 1320 MPa ASTM D790  Flexural Strength 4 (23°C, Injection Molded) 31.0 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C, 3.20 mm, Injection Molded) 83 J/m ASTM D256  Thermal Nominal Value Unit Test Method		200	<b>%</b>	ASTM D638
Flexural Strength <sup>4</sup> (23°C, Injection Molded) 31.0 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C, 3.20 mm, Injection Molded) 83 J/m ASTM D256  Thermal Nominal Value Unit Test Method		1320	MPa	ASTM D790
Molded) 31.0 MPa ASTM D790  Impact Nominal Value Unit Test Method  Notched Izod Impact (23°C, 3.20 mm, Injection Molded) 83 J/m ASTM D256  Thermal Nominal Value Unit Test Method			4	
Notched Izod Impact (23°C, 3.20 mm, Injection Molded) 83 J/m ASTM D256  Thermal Nominal Value Unit Test Method	-	31.0	MPa	ASTM D790
Injection Molded) 83 J/m ASTM D256 Thermal Nominal Value Unit Test Method	Impact	Nominal Value	Unit	Test Method
Thermal Nominal Value Unit Test Method				
	Injection Molded)	83	J/m	ASTM D256
Deflection Temperature Under Load ASTM D648	Thermal	Nominal Value	Unit	Test Method
	Deflection Temperature Under Load			ASTM D648

0.45 MPa, unannealed, 6.40mm, injection molding	130	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm, inj	jection		
molding	70.0	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm)	НВ		UL 94
Additional Information			
Filler Content, ISO3451/1, Method A	A: 30%		
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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