

Product Information

Glass Fiber Reinforced Grade

KOPA[®] KN1 Series

KOPA[®] KN1 Series is the plastic material based on polyamide-6 that is a thermoplastic resin with excellent mechanical, thermal and electrical properties. KOPA[®] KN1 Series is widely used in the manufacture of automobile and industrial parts.

KOPA[®] KN133G20BK

Middle viscosity, G/F 20% reinforced Polyamide6 Compound resin

Properties	Test Method	Unit	Typical Value
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Physical

Specific Gravity	ISO 1183	-	1.28
Filler Contents	ISO 1172	%	20
Shrinkage	ISO 294	%	
Water Absorption	23°C,H ₂ O, 24hr	ISO 62	%

Mechanical

Tensile Strength	23°C	ISO 527	MPa	135
Tensile Elongation	23°C	ISO 527	%	2
Flexural Strength	23°C	ISO 178	MPa	180
Flexural Modulus	23°C	ISO 178	MPa	5,200
Notched Charpy Impact Strength	23°C	ISO 179/1eA	kJ/m ²	7
Rockwell Hardness		ISO 2039-1	R scale	

Thermal

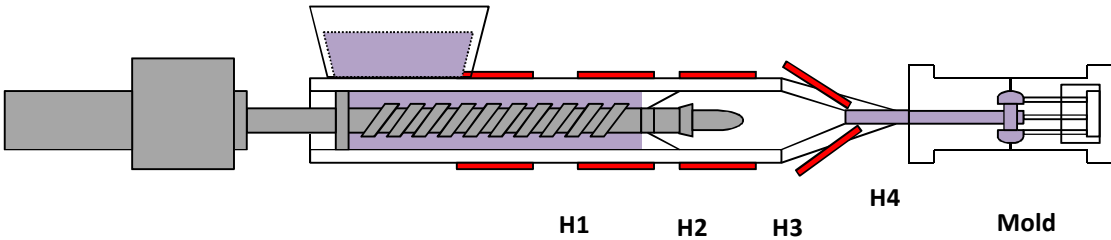
Melting Point	ISO 11357-1	°C	
Heat Deflection Temperature	ISO 75	°C	
	0.45 MPa	°C	
	1.8 MPa	°C	188
Flammability(0.8mm)	UL94		



Electrical

Comparative Tracking Index(CTI)	IEC 60112	Volts	
Volume Resistivity	IEC 60093	Ohm·cm	
Surface Resistivity	IEC 60093	Ohm	

Processing Guide (Injection Molding)



	H1	H2	H3	H4
Cylinder Temperature(°C)	230	245	250	255
Mold Temperature(°C)	60~80			
Processing Moisture Contents(%)	≤0.05			
Pre-drying	Dehumidified Dryer, 80~100°C, 4~5hr			

