

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[®] KN133G20HIBK

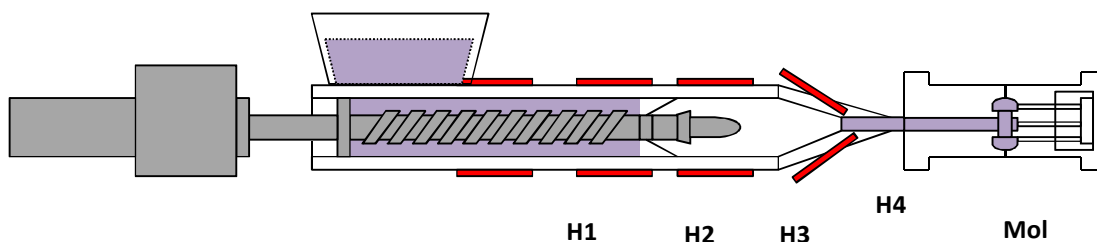
Middle viscosity, Impact Resistant, G/F 20% reinforced, Black color

Properties		Test Method	Unit	Typical Value
Physical				
Specific Gravity		ISO 1183	-	1.26
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	120
Tensile Elongation	23°C	ISO 527	%	2
Flexural Strength	23°C	ISO 178	MPa	170
Flexural Modulus	23°C	ISO 178	MPa	4,900
Notched Charpy Impact Strength	23°C	ISO 179/1eA	kJ/m ²	12
Rockwell Hardness		ISO 2039-1	R scale	
Thermal				
Melting Point		ISO 11357-1	°C	220
Heat Deflection Temperature	0.45 MPa	ISO 75	°C	182
	1.8 MPa		°C	
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			

