

Product Information

Glass Fiber & Mineral 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[®] KN135HB40SIBL

Hybrid, High thermal resistant, Dimensionally stable, Black color

Properties	Test Method	Unit	Typical Value
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Physical

Specific Gravity	ISO 1183	-	1.46
Filler Contents	ISO 1172	%	40
Shrinkage	ISO 294	%	
Water Absorption	ISO 62	%	
	23°C, H ₂ O, 24hr		

Mechanical

Tensile Strength	23°C	ISO 527	MPa	125
Tensile Elongation	23°C	ISO 527	%	3
Flexural Strength	23°C	ISO 178	MPa	180
Flexural Modulus	23°C	ISO 178	MPa	6,900
Notched Charpy Impact Strength	23°C	ISO 179/1eA	kJ/m ²	4
Rockwell Hardness		ISO 2039-1	R scale	

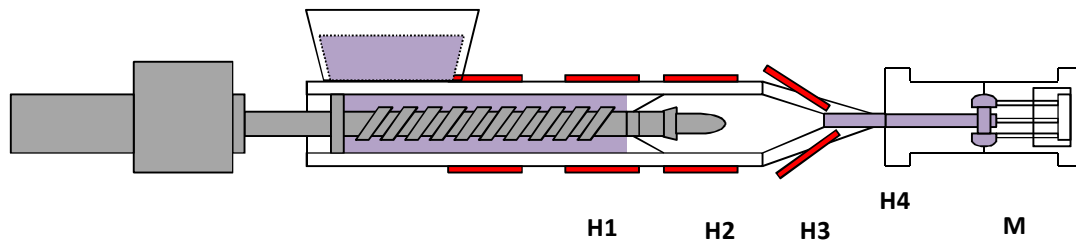
Thermal

Melting Point		ISO 11357-1	°C	
Heat Deflection Temperature		ISO 75	°C	
	0.45 MPa		°C	
	1.8 MPa		°C	184
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	250	255	260
Mold Temperature(°C)	60~80			
Processing Moisture Contents(%)	≤0.05			
Pre-drying	Dehumidified Dryer, 80~100°C, 4~5hr			

The above-mentioned data was measured by Kolon Plastics, inc. under certain conditions and environment. Therefore, it can not be compared with the data measured under different conditions and environment. And not guaranteed and no warranty. If other additives and pigments are used on this product, The above data cannot be applied. The data can not be used as the evidence of legal proceedings.

Contact www.kolonplastics.com