KOLON PLASTICS, INC.

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℃,H_2O, 24hr	ISO 62	%	
Mechanical				
Tensile Strength	23℃	ISO 527	MPa	120
Tensile Elongation	23℃	ISO 527	%	2
Flexural Strength	23℃	ISO 178	MPa	170
Flexural Modulus	23℃	ISO 178	MPa	4,900
Notched Charpy Impact Strength	23℃	ISO 179/1eA	kJ/m^2	12
Rockwell Hardness		ISO 2039-1	R scale	
Thermal				
Melting Point		ISO 11357-1	℃	220
Heat Deflection Temperature		ISO 75		
	0.45 MPa		℃	
	1.8 MPa		℃	182
Flammability(0.8mm)		UL94		

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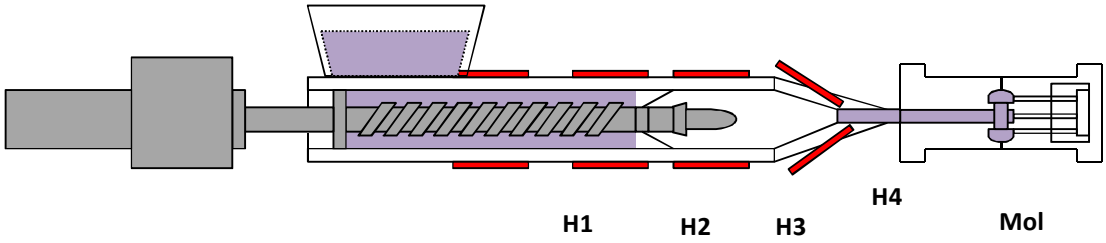
Electrical

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(℃)	230	245	250	255
Mold Temperature(℃)	60~80			
Processing Moisture Contents(%)	≤0.05			
Pre-drying	Dehumidified Dryer, 80~100℃, 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

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