

Product Information

Standard 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[®] KN136

Standard Polyamide6 resin

Properties	Test Method	Unit	Typical Value
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Physical

Specific Gravity	ISO 1183	-	1.13
Filler Contents	ISO 1172	%	-
Shrinkage	ISO 294	%	1.3-1.5
Water Absorption	ISO 62	%	-
	23°C, H ₂ O, 24hr		

Mechanical

Tensile Strength	23°C	ISO 527	MPa	75
Tensile Elongation	23°C	ISO 527	%	40
Flexural Strength	23°C	ISO 178	MPa	100
Flexural Modulus	23°C	ISO 178	MPa	2,400
Notched Charpy Impact Strength	23°C	ISO 179/1eA	kJ/m ²	5
Rockwell Hardness		ISO 2039-1	R scale	120

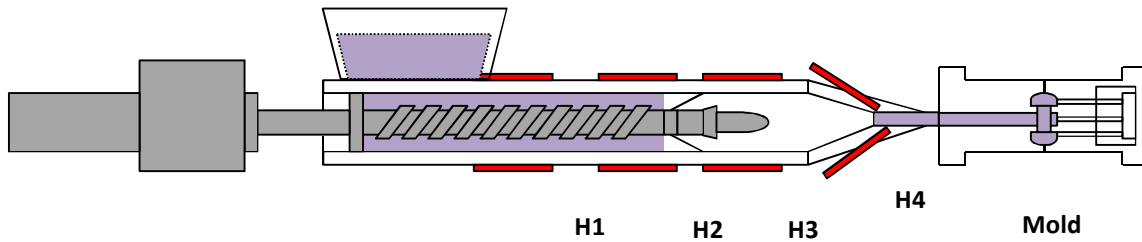
Thermal

Melting Point		ISO 11357-1	°C	220
Heat Deflection Temperature		ISO 75	°C	
	0.45 MPa		°C	
	1.8 MPa		°C	60
Flammability(0.8mm)		UL94		HB

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	240	250	250
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