KOLON PLASTICS, INC.

Product Information

Impact Resistant 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® KN173HIHS

High viscosity, Heat-resistant, Extrudable, Polyamide6 Compound resin

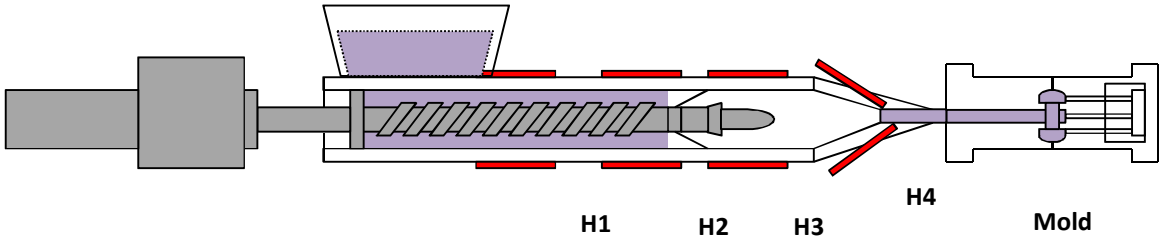
Properties		Test Method	Unit	Typical Value
Physical				
Specific Gravity		ISO 1183	-	-
Filler Contents		ISO 1172	%	-
Shrinkage		ISO 294	%	-
Water Absorption	23℃,H_2O, 24hr	ISO 62	%	-
Mechanical				
Tensile Strength	23℃	ISO 527	MPa	65
Tensile Elongation	23℃	ISO 527	%	110
Flexural Strength	23℃	ISO 178	MPa	90
Flexural Modulus	23℃	ISO 178	MPa	2,300
Notched Charpy Impact Strength	23℃	ISO 179/1eA	kJ/m^2	15
Rockwell Hardness		ISO 2039-1	R scale	120
Thermal				
Melting Point		ISO 11357-1	℃	220
Heat Deflection Temperature		ISO 75		
	0.45 MPa		℃	
	1.8 MPa		℃	55
Flammability(0.8mm)		UL94		HB

KOLON PLASTICS, INC.

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	240	250	250
Mold Temperature(℃)	60~80			
Processing Moisture Contents(%)	≤0.05			
Pre-drying	Dehumidified Dryer, 80~100℃, 4~5hr			

KOLON PLASTICS, INC.

ISO TS16949