

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[®] KN173ST3R

High viscosity, Extrudable, Impact resistant, Polyamide6 Compound resin

Properties	Test Method	Unit	Typical Value
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Physical

Specific Gravity	ISO 1183	-	-
Filler Contents	ISO 1172	%	-
Shrinkage	ISO 294	%	1.3-1.6
Water Absorption	23°C,H ₂ O, 24hr ISO 62	%	-

Mechanical

Tensile Strength	23°C	ISO 527	MPa	40
Tensile Elongation	23°C	ISO 527	%	240
Flexural Strength	23°C	ISO 178	MPa	25
Flexural Modulus	23°C	ISO 178	MPa	610
Notched Charpy Impact Strength	23°C	ISO 179/1eA	kJ/m ²	65
Rockwell Hardness		ISO 2039-1	R scale	120

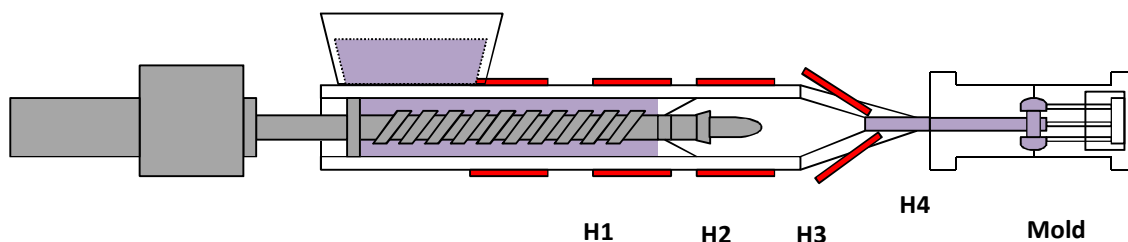
Thermal

Melting Point		ISO 11357-1	°C	220
Heat Deflection Temperature		ISO 75		
	0.45 MPa		°C	
	1.8 MPa		°C	75
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			

