

Product Information

General Grade

KOPA[®] KN3 Series

KOPA[®] KN3 Series is a thermoplastic resin NYLON 66 with excellent mechanical, thermal and electrical properties. It finds wide application in the production of automotive, electrical and industrial parts and components, because it has a long-term heat resistance and excellent mechanical strength, It is suitable for use in internal and external parts.

KOPA[®] KN3311BLK

Standard black grade

Properties	Test Method	Unit	Typical Value
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Physical

Specific Gravity	ISO 1183	-	1.14
Filler Contents	ISO 1172	%	-
Shrinkage	ISO 294	%	1.1~1.3
Water Absorption	23°C, H ₂ O, 24hr ISO 62	%	1.3

Mechanical

Tensile Strength	23°C	ISO 527	MPa	85
Tensile Elongation	23°C	ISO 527	%	15
Flexural Strength	23°C	ISO 178	MPa	110
Flexural Modulus	23°C	ISO 178	MPa	2,720
Notched Charpy Impact Strength	23°C	ISO 179/1eA	kJ/m ²	5
Rockwell Hardness		ISO 2039-1	R scale	-

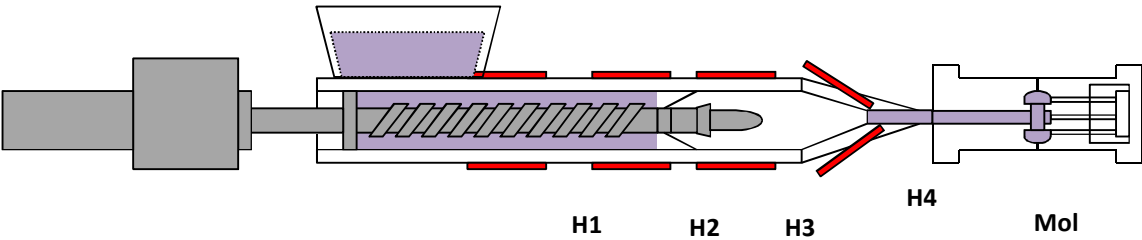
Thermal

Melting Point		ISO 11357-1	°C	270-295
Heat Deflection Temperature		ISO 75		
	0.45 MPa		°C	
	1.8 MPa		°C	70
Flammability(0.8mm)		UL94		V2

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)	260	265	270	275
Mold Temperature(°C)	60~80			
Processing Moisture Contents(%)	≤0.05			
Pre-drying	Dehumidified Dryer, 80~100°C, 4~5hr			

