

Product Information

Glass Fiber Reinforced 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[®] KN333G50

Glass fiber 50% reinforced, Polyamide66 Compound resin

Properties	Test Method	Unit	Typical Value
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Physical

Specific Gravity	ISO 1183	-	1.56
Filler Contents	ISO 1172	%	50
Shrinkage	ISO 294	%	
Water Absorption	23°C, H ₂ O, 24hr	ISO 62	%

Mechanical

Tensile Strength	23°C	ISO 527	MPa	250
Tensile Elongation	23°C	ISO 527	%	2.5
Flexural Strength	23°C	ISO 178	MPa	360
Flexural Modulus	23°C	ISO 178	MPa	13,000
Notched Charpy Impact Strength	23°C	ISO 179/1eA	kJ/m ²	18
Rockwell Hardness		ISO 2039-1	R scale	

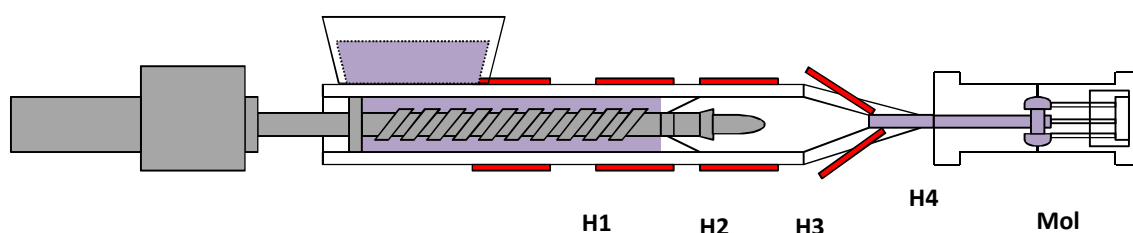
Thermal

Melting Point		ISO 11357-1	°C	255
Heat Deflection Temperature		ISO 75		
	0.45 MPa		°C	
	1.8 MPa		°C	255
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)	270	290	295	300
Mold Temperature(°C)	60~80			
Processing Moisture Contents(%)	≤0.05			
Pre-drying	Dehumidified Dryer, 80~100°C, 4~5hr			

