

KOPA[®] KN333G50F

Injection Molding , PA66+GF50%, General Purpose, Good Surface, High Flow

Application

Automotive

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Density		ASTM D792	-	1.56
Shrinkage		ASTM D955	%	0.2~0.7
Water Absorption	23℃, H ₂ O, 24hr	ASTM D570	%	0.60
Mechanical				
Tensile Strength at Break (3.2mm)	50 mm/min	ASTM D638	MPa	240
Elongation at Break (3.2mm)	50 mm/min	ASTM D638	%	-
Flexural Strength (3.2mm)	5 mm/min	ASTM D790	MPa	380
Flexural Modulus (3.2mm)	5 mm/min	ASTM D790	MPa	15,000
Izod Impact Strength (6.4mm)		ASTM D256		
(Notched)	23 ℃		J/m	180
Rockwell Hardness	R scale	ASTM D785	-	125
Thermal				
Melting Point	20 ℃/min	ASTM D3418	℃	260
Heat Deflection Temperature	1.8 MPa	ASTM D648	℃	252
Coefficient of linear expansion		ASTM D696	× 10 ⁻⁴ cm/cm·℃	-
Flammability (0.8mm)		UL94	Class	V2

※ 1Mpa = 10.197162 Kaf/cm². 1J/m = 0.10197 Kaf·cm/cm. (Test specimen Thickness)



Processing Guide (Injection Molding)

Drying Temperature(℃)	80 ~ 90			
Drying Time(hr)	3~5			
Processing Moisture Contents(%)	≤ 0.1			
Cylinder Temperature(℃)	Nozzle	Front	Middle	Rear
	285~315	290	285	270
Mold Temperature(℃)	60~100			

