

KOPA® KN133G40

Injection Molding, PA6+GF40%, Medium viscosity

Application

General

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Density		ASTM D792	—	1.45
Shrinkage		ASTM D955	%	0.1 ~ 0.5
Water Absorption	23℃, H ₂ O, 24hr	ASTM D570	%	1.1
Mechanical				
Tensile Strength at Break (3.2mm)	5 mm/min	ASTM D638	MPa	192
Elongation at Break (3.2mm)	5 mm/min	ASTM D638	%	—
Flexural Strength (3.2mm)	5 mm/min	ASTM D790	MPa	310
Flexural Modulus (3.2mm)	5 mm/min	ASTM D790	MPa	10300
Izod Impact Strength (6.4mm)		ASTM D256		
(Notched)	23 ℃		J/m	190
	-30 ℃		J/m	—
Rockwell Hardness	R scale	ASTM D785	—	120
Thermal				
Melting Point	20 ℃/min	ASTM D1525	℃	225
Heat Deflection Temperature	1.8 MPa	ASTM D648	℃	205
Flammability (0.8mm)		UL94	Class	HB

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



Processing Guide (Injection Molding)

Drying Temperature(℃)	80 ~ 90			
	(Dehumidifying Dryer)			
Drying Time(hr)	3~5			
Processing Moisture Contents(%)	≤ 0.1			
Cylinder Temperature(℃)	Nozzle	Front	Middle	Rear
	260~290	260~290	250~280	240~270
Mold Temperature(℃)	60~100			

