

KOPA® KN333G15BL

Injection Molding , PA66+GF15%, General Purpose, Black

Application

Automotive(Valve Covers)

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Density		ASTM D792	—	1.24
Shrinkage		ASTM D955	%	0.5~1.1
Water Absorption	23℃ , H ₂ O, 24hr	ASTM D570	%	1.2
Mechanical				
Tensile Strength at Break (3.2mm)	5 mm/min	ASTM D638	MPa	120
Elongation at Break (3.2mm)	5 mm/min	ASTM D638	%	—
Flexural Strength (3.2mm)	5 mm/min	ASTM D790	MPa	200
Flexural Modulus (3.2mm)	5 mm/min	ASTM D790	MPa	5,600
Izod Impact Strength (6.4mm)		ASTM D256		
(Notched)	23 ℃		J/m	55
Rockwell Hardness	R scale	ASTM D785	—	120
Thermal				
Melting Point	20 ℃/min	ASTM D1525	℃	260
Heat Deflection Temperature	1.8 MPa	ASTM D648	℃	235
Coefficient of linear expansion		ASTM D696	× 10 ⁻⁴ cm/cm · ℃	—

※ 1Mpa = 10.197162 Kg/cm², 1J/m = 0.10197 Kg · 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
	280~310	280~310	270~300	260~290
Mold Temperature(℃)	60~100			

