KOLON PLASTICS, INC.

Product Information

Standard Grade

KOPPS® Series

KOPPS® Series is one kind of SUPER Engineering Plastics beyond the performance of Engineering Plastics. It is mainly used for precision parts that require the high dimension stability. The property of low absorption of the product whose value is close to '0' makes the high quality of the dimension stability after injection with the excellent melt viscosity. Also, its special property of the high and consecutive using temperature and self-extinguishing character extends the range of the usage for the part of the car, electric and electronic industry that require the high heat resistance and the flame resistance.

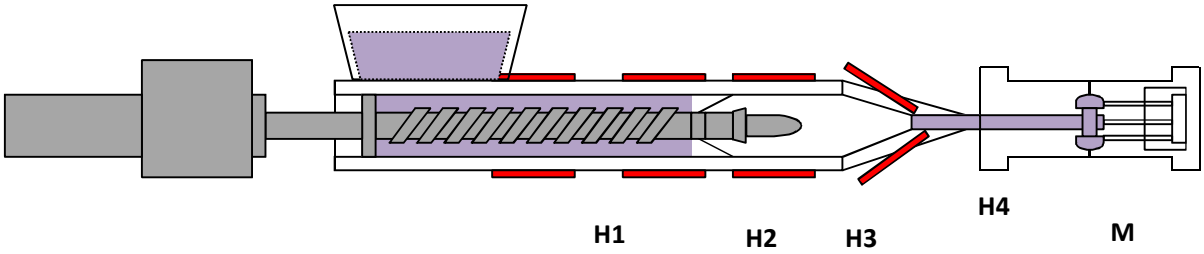
KOPPS® S21A65

Properties		Test Method	단위	대표치
Physical				
Specific Gravity		ISO 1183	-	1.95
Filler Contents		ISO 1172	%	65
Shrinkage		ISO 294	%	0.23/1.00
Water Absorption	23℃,H_2O, 24hr	ISO 62	%	0.02
Mechanical				
Tensile Strength	23℃	ISO 527	MPa	125
Tensile Elongation	23℃	ISO 527	%	1.0
Flexural Strength	23℃	ISO 178	MPa	195
Flexural Modulus	23℃	ISO 178	MPa	16,000
Notched Charpy Impact Strength	23℃	ISO 179/1eA	kJ/m^2	7.0
Rockwell Hardness		ISO 2039-1	R scale	120
Thermal				
Melting Point		ISO 11357-1	℃	285
Heat Deflection Temperature		ISO 75		265
	1.8 MPa		℃	
Flammability(0.8mm)		UL94		V-0

Electrical

Comparative Tracking Index(CTI)	IEC 60112	Volts	230
Volume Resistivity	IEC 60093	Ohm·cm	10^{16}
Surface Resistivity	IEC 60093	Ohm	_

Processing Guide (Injection Molding)



	H1	H2	H3	H4
Cylinder Temperature(℃)	230~250	290~310	290~310	300~320
Mold Temperature(℃)	120~140			
Processing Moisture Contents(%)	≤0.05			
Pre-drying	Dehumidified Dryer, 120~130℃, 3~5hr			