

KOPPS[®] S25G40BL

Injection Molding, PPS+G/F40, Self-extinguishability, Black

Application

General

Properties	Measurement condition	Test Method	Unit	Typical value
Physical				
Density		ASTM D792	—	1.65
Shrinkage		ASTM D955	%	0.19 ~ 0.25
Water Absorption	23℃, H ₂ O, 24hr	ASTM D570	%	0.02
Mechanical				
Tensile Strength at Break (3.2mm)	5 mm/min	ASTM D638	MPa	170
Elongation at Break (3.2mm)	5 mm/min	ASTM D638	%	≥2
Flexural Strength (3.2mm)	5 mm/min	ASTM D790	MPa	250
Flexural Modulus (3.2mm)	5 mm/min	ASTM D790	MPa	12000
Izod Impact Strength (6.4mm)		ASTM D256		
(Notched)	23 ℃		J/m	90
Rockwell Hardness	R scale	ASTM D785	—	122
Thermal				
Melting Point	20 ℃/min	ASTM D1525	℃	285
Heat Deflection Temperature	1.8 MPa	ASTM D648	℃	265
Flammability (0.8mm)		UL94	Class	V0

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



Processing Guide (Injection Molding)

Drying Temperature(℃)	120 ~ 130	(Dehumidifying Dryer)		
Drying Time(hr)	4~6 hr			
Processing Moisture Contents(%)	≤ 0.1			
Cylinder Temperature(℃)	Nozzle	Front	Middle	Rear
	300~320	300~320	280~300	260~280
Mold Temperature(℃)	50~90			

