

KOPPS® S25G40BL

Polyphenylene Sulfide

Kolon Plastics, Inc.

Message:

KOPPS® S25G40BL is a polyphenylene sulfide (PPS) product, which contains a 40% glass fiber reinforced material. It is available in North America, Latin America, Europe or Asia Pacific.

Features include:

- flame retardant/rated flame
- ROHS certification
- high liquidity
- Good dimensional stability
- Heat resistance

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Features	Good dimensional stability		
	High liquidity		
	Heat resistance, high		
	Self-extinguishing		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.65	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.22	%	ASTM D955
Transverse flow	0.25	%	ISO 294-4
Flow	0.13	%	ISO 294-4
Water Absorption			
23°C, 24 hr	0.020	%	ISO 62
Balanced, 23°C, 60% RH	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	122		ASTM D785
R scale	119		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
23°C	152	MPa	ASTM D638
23°C	155	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	2.0	%	ASTM D638
Fracture, 23°C	1.5	%	ISO 527-2
Flexural Modulus			

23°C	14700	MPa	ASTM D790
23°C	13200	MPa	ISO 178
Flexural Strength			
23°C	245	MPa	ASTM D790
23°C	235	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	78	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	265	°C	ASTM D648, ISO 75-2/A
Melting Temperature	285	°C	ISO 11357-3, ASTM D3418
CLTE - Flow	2.2E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	IEC 60093
Dielectric Strength	16	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.00		ASTM D150
Arc Resistance	120	sec	ASTM D495
Comparative Tracking Index	160	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	120 - 130	°C	
Drying Time - Desiccant Dryer	3.0 - 5.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	230 - 250	°C	
Middle Temperature	290 - 310	°C	
Front Temperature	290 - 310	°C	
Nozzle Temperature	300 - 320	°C	
Mold Temperature	120 - 140	°C	

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