

KOPPS® S38A65BL

Polyphenylene Sulfide

Kolon Plastics, Inc.

Message:

KOPPS® S38A65BL is a polyphenylene sulfide (PPS) product, which contains a 65% filler. It is available in North America, Latin America, Europe or Asia Pacific.

- Features include:
- flame retardant/rated flame
 - ROHS certification
 - Flame Retardant
 - Good dimensional stability
 - Heat resistance

General Information			
Filler / Reinforcement	Packing, 65% packing by weight		
Additive	Flame retardancy		
Features	Low Halogen Content		
	Good dimensional stability		
	Heat resistance, high		
	Flame retardancy		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.85	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.20	%	ASTM D955
Transverse flow	1.1	%	ASTM D955
Transverse flow	1.0	%	ISO 294-4
Flow	0.20	%	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	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
23°C	108	MPa	ASTM D638
23°C	115	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	2.5	%	ASTM D638

Fracture, 23°C	1.2	%	ISO 527-2
Flexural Modulus			
23°C	18600	MPa	ASTM D790
23°C	18000	MPa	ISO 178
Flexural Strength			
23°C	181	MPa	ASTM D790
23°C	185	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact	39	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	> 265	°C	ASTM D648
1.8 MPa, not annealed	> 260	°C	ASTM D648
1.8 MPa, not annealed	260	°C	ISO 75-2/A
Melting Temperature	285	°C	ISO 11357-3, ASTM D3418
CLTE - Flow	2.0E-5	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)	5.00		ASTM D150
Arc Resistance	115	sec	ASTM D495
Comparative Tracking Index	220	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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