

KOPPS® S13A65

Polyphenylene Sulfide
Kolon Plastics, Inc.

Message:

KOPPS®S13A65 is a polyphenylene sulfide (PPS) product, which contains a filler of glass/mineral. 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 \Mineral		
Features	Good dimensional stability		
	High liquidity		
	Heat resistance, high		
	Self-extinguishing		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.95	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.20	%	ASTM D955
Transverse flow	1.0	%	ISO 294-4
Flow	0.23	%	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	125	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	2.0	%	ASTM D638
Fracture, 23°C	1.0	%	ISO 527-2
Flexural Modulus			

23°C	17700	MPa	ASTM D790
23°C	16000	MPa	ISO 178
Flexural Strength			
23°C	196	MPa	ASTM D790
23°C	195	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.35mm	265	°C	ASTM D648
1.8 MPa, not annealed	265	°C	ISO 75-2/A
Melting Temperature	285	°C	ISO 11357-3, ASTM D3418
CLTE - Flow	2.0E-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)	5.00		ASTM D150
Arc Resistance	120	sec	ASTM D495
Comparative Tracking Index	230	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.8 mm)	V-0		UL 94

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