

# Sinvicomp SIZ5109O

Flexible Polyvinyl Chloride

Teknor Apex Asia Pacific PTE. LTD.

Message:

"Sinvicomp" SIZ 5109O is a wire & cable polyvinylchloride compound available in pellet form. SIZ 5109O provides good performance for insulation of electrical wires.

General Information			
Uses	Insulating material		
Cable Type (IEC 60502)	A		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>1</sup>	1.40	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shaw A, 10 seconds	88		ASTM D2240
Shaw D, 10 seconds	34		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	18.0	MPa	IEC 811-1-1
Tensile Elongation (Break)	250	%	IEC 811-1-1
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength <sup>2</sup> (70°C, 4 hr, in IRM 902 Oil)	8.0	%	IEC 60811-2-1
Change in Ultimate Elongation <sup>3</sup> (70°C, 4 hr, in IRM 902 Oil)	14	%	IEC 60811-2-1
Changes in mechanical properties after hot air aging test, 100°C, 168 hr <sup>4</sup>			IEC 60811-1-1
Tensile strength change	8	%	IEC 60811-1-1
Change in tensile elongation	12	%	IEC 60811-1-1
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-20.0	°C	ASTM D746
Thermal deformation-120°C, 1hr (120°C)	15	%	BS 6746
Thermal stability-Congo Red (190°C)	> 1.0	hr	BS 2782
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+14	ohms · cm	BS 2782
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	26	%	ASTM D2863
Additional Information			

Typical temperature profile for processing SINVICOMP compound is from 160°C to 175°C. The optimum temperatures depend on the type of machine as well as screw design being used to process SINVICOMP. Feeding zone: 150°C~160°C Compression zone: 160°C~170°C Mixing zone: 170°C~175°C Nozzle/Die Zone: 175°C

NOTE	
1.	@23°C
2.	70±2°C
3.	70±2°C
4.	100±2°C

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