

# Sinvicomp SIZ4306

## - Flexible Polyvinyl Chloride

Thursday, June 29, 2017

### General Information

#### Product Description

"Sinvicomp" SIZ 4306 is a wire & cable polyvinylchloride compound available in pellet form. SIZ 4306 provides good performance for insulation of electrical wires.

#### General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Uses	• Insulation
Wire Types (BS 6746)	• T11 • T12
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Extrusion

### ASTM & ISO Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Specific Gravity <sup>2</sup>	1.31		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	2900	psi	IEC 60811-1-1
Tensile Elongation (Break)	250	%	IEC 60811-1-1
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	88		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Heat Stability (392°F)	1.4	hr	BS 2782
Hot Deformation - 120°C, 1hr (248°F)	30	%	BS 6746
Aging	Nominal Value	Unit	Test Method
Mechanical Properties After Aging in Air Oven, 176°F, 168 hr <sup>3</sup>			IEC 811-1-2
Change in Tensile Elongation	12	%	
Change in Tensile Strength	10	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (68°F)	1.0E+14	ohms·cm	BS 2782
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	29	%	ASTM D2863
Additional Information	Nominal Value	Unit	Test Method
Loss of Mass - 7 days, 80±2°C <sup>4</sup> (176°F)	1.00	mg/cm <sup>2</sup>	IEC 811-3-2

Typical temperature profile for processing SINVICOMP compound is from 160°C to 180°C. The optimum temperatures depend on the type of machine as well as screw design being used to process SINVICOMP.

Feeding zone: 160°C  
 Compression zone: 160°C~170°C  
 Mixing zone: 170°C~180°C  
 Nozzle/Die Zone: 180°C

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> @23°C

<sup>3</sup> 80±2°C

<sup>4</sup> 7 days, 80±2°C



Revision Date: 5/5/2014

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