

- Flexible Polyvinyl Chloride

Thursday, June 29, 2017

General Information

Product Description

"Sinvicomp" SIZ 51090 is a wire & cable polyvinylchloride compound available in pellet form. SIZ 51090 provides good performance for insulation of electrical wires.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Uses	• Insulation
Wire Types (IEC 60502)	• A
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Extrusion

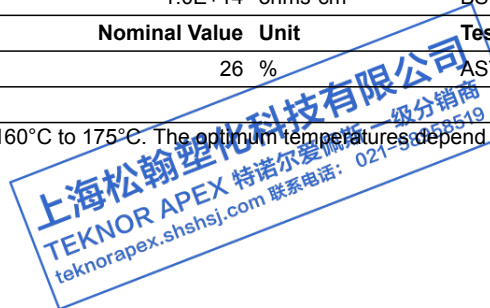
ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity ²	1.40		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	2610	psi	IEC 811-1-1
Tensile Elongation (Break)	250	%	IEC 811-1-1
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore A, 10 sec	88		
Shore D, 10 sec	34		
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-4.00	°F	ASTM D746
Heat Stability - Congo Red (374°F)	> 1.0	hr	BS 2782
Hot Deformation - 120°C, 1hr (248°F)	15	%	BS 6746
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength ³ 158°F, 4 hr, in IRM 902 Oil	8.0	%	IEC 60811-2-1
Change in Ultimate Elongation ³ 158°F, 4 hr, in IRM 902 Oil	14	%	IEC 60811-2-1
Mechanical Properties After Aging in Air Oven, 212°F, 168 hr ⁴			IEC 60811-1-1
Change in Tensile Elongation	12	%	
Change in Tensile Strength	8	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (73°F)	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



Revision Date: 10/9/2014

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Sinvicomp SIZ5109O

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Notes

¹ Typical properties: these are not to be construed as specifications.

² @23°C

³ 70±2°C

⁴ 100±2°C

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