

Sinvicomp SZF5009C

Teknor Apex Asia Pacific PTE. LTD. - Flexible Polyvinyl Chloride

Thursday, August 29, 2019

General Information

Product Description

"Sinvicomp"SZF 5009C is a wire & cable polyvinylchloride compound available in pellet form. SZF 5009C provides good performance for jacketing of cables.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Uses	• Wire Jacketing
Wire Types (IEC 60502)	• ST1 • ST2
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
Processing Method	• Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.50		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	2180	psi	IEC 60811-1-1
Tensile Elongation (Break)	250	%	IEC 60811-1-1
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	3.20	°F	ASTM D746
Hot Deformation - 120°C, 1hr (248°F)	25	%	BS 6469
Aging	Nominal Value	Unit	Test Method
Mechanical Properties After Aging in Air Oven, 212°F, 168 hr ²			IEC 811-1-2
Change in Tensile Elongation	15	%	
Change in Tensile Strength	10	%	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (68°F)	1.0E+13	ohms·cm	BS 2782
Flammability	Nominal Value	Unit	Test Method
Oxygen Index	32	%	ASTM D2863
Additional Information	Nominal Value	Unit	Test Method
Emission - HCL	12	%	IEC 60754-1
Loss of Mass - 7 days, 100±2°C ³ (212°F)	1.40	mg/cm ²	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~175°C

Mixing zone: 175°C~185°C

Nozzle/Die Zone: 185°C

Notes

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

² 100±2°C

³ 7 days, 100±2°C