



Sinvicomp SIZ4501S3 KD11

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

General Information

General

Material Status	• Commercial: Active
Availability	• Asia Pacific
Features	• Sunlight Resistant (300 hours) • Sunlight Resistant (720 hours)
Uses	• Insulation
Forms	• Pellets
Processing Method	• Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity ²	1.49		ASTM D792
Carbon Black Content ³	1.0	%	Calculated
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	2320	psi	IEC 811-1-1
Tensile Elongation (Break)	250	%	IEC 811-1-1
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	90		ASTM D2240
Aging	Nominal Value	Unit	Test Method
Mechanical Properties After Aging in Air Oven, 168 hr ⁴			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 230A
Additional Information	Nominal Value	Unit	Test Method
Loss of Mass - Oven Ageing Condition @ 80 ± 2°C for 7 days	1.00	mg/cm ²	IEC 811-3-2
Xenon Arc			UL 1581
Tensile elongation retention - 300 hours	> 85	%	
Tensile elongation retention - 720 hours	> 80	%	
Tensile strength retention - 300 hours	> 85	%	
Tensile strength retention - 720 hours	> 80	%	

Typical temperature profile for 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

Mixing zone: 160°C~170°C

Metering zone: 170°C~180°C

Nozzle/Die Zone: 180°C

Notes

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

² @ 23°C

³ material content

⁴ @ 80 ± 2°C