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TEKNOR APEX

Sinvicomp SIZ4306

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

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)	• TI1	• TI2
RoHS Compliance	• RoHS Compliant	
Forms	• Pellets	
Processing Method	• Extrusion	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity [2]	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 [3]			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 [4] (176°F)	1.00	mg/cm²	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

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

[2] @23°C

[3] 80±2°C

[4] 7 days, 80±2°C