

# TABOCAB SXG 010



**Silane-crosslinkable, Halogen Free Flame Retardant compound**

## Description

**TABOCAB SXG 010** is a Silan cross-linkable insulation and sheathing compound made by SIOPLAS technology suitable for outdoor application. The recommended Catalyst Masterbatch for this compound is **TABOCAB CM 914**.

### Typical application:

**TABOCAB SXG 010** is designed for cable insulation and sheathing in construction application. Together with **TABOCAB CM 914** is primarily used for aerial bundle cables (ABC) of the construction: 1-AEKS, E-A2Y, NFA2X. The properties of this compound comply with the requirements of: **VDE 0276 T.626-4-Fm; HD 626.4F S1**.



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	Typical properties	Test method	Unit	Nominal value
Physical properties	Density	ISO 1183-1A	g/cm <sup>3</sup>	0,98
	Melt Flow Index (190°C, 5 kg)	ISO 1133	g/10 min	1,3
	Bulk density	ISO 60	g/cm <sup>3</sup>	0,61
	Shore hardness	ISO 868	Shore D	55
	Moisture content	ISO 15512	%	< 0,02
	Gel content (adding 5% CM 012)	ISO 101417	%	> 60
Mechanical properties	Tensile strength at break	EN 60811-501	MPa	18,0
	Tensile elongation at break	EN 60811-501	%	> 250
Thermal properties	<i>Hot set test 200°C (20 N/cm<sup>2</sup>)</i>			
	Elongation under load	EN 60811-507	%	+70
	Permanent elongation	EN 60811-507	%	+5
	Cold bend test (-40°C)	EN 60811-504	-	no cracks
	Cold impact test (-40°C)	EN 60811-506	-	no cracks
	Hot pressure test - max. penetration (90°C)	EN 60811-508	%	< 50
	Hot air shrinkage (1 hr, 120 °C)	EN 60811-509	%	< 2
Flammability	Caloric potential - (upper gross)	ISO 1716	MJ/kg	35

**Notes\*** The above values are typical for this material, not standardized.

# Processing Guidelines

## Drying:

**TABOCAB SXG 010** is recommended to be pre-conditioned at least to 18 °C before opening the package to avoid moisture condensation on the surface of the compound.

## Additional level:

Catalyst Masterbatch **TABOCAB CM 914** and graft polymer **TABOCAB SXG 010** are normally being added in the ratio of 90 parts graft to 10 parts of catalyst MB. This formulation insures optimum processing conditions and application performance of the XLPE material under the UV conditions.

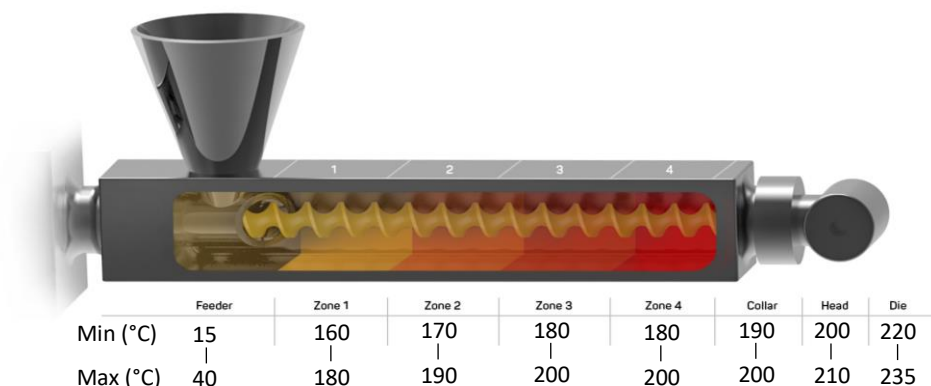
## Machine requirements:

**TABOCAB SXG 010** can be processed on standard extrusion lines with a thermoregulation system. Screw cooling is not required, but effective steering of the cylinder temperatures with suitable cooling is recommended. A breaker plate and filter net (80 - 140 mesh/cm<sup>2</sup>) are recommended to be used.

## Screw:

preferably compression: 2,5-3 : 1  
screw length: 25-30 L/D

## Temperature profile:



## Cross-linking cure

The following methods are recommended:

- By immersion of the final product in hot water at 70 - 90°C
- By exposure to low-pressure steam at 60 - 80°C (about 0,15 bar)
- By ambient exposure; the kinetics of cross-linking depend on the ambient temperature and relative humidity

## Storage and handling

**TABOCAB SXG 010** must be stored under the following conditions:

- Sealed undamaged bags
- Ambient temperature not exceeding 30 °C
- Exposure to direct sunlight must be avoided
- Shelf life: 6 months from the production date printed on the packaging
- Material should be used directly after opening the packaging

## Packaging

Boxes of 600 kg containing a moisture-resistant multilayer lining  
Moisture resistant multilayer bags containing 20 kg



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