

Product Information:

KK-SICO683 is a thermoplastic, halogen free flame retardant natural jacketing compound with high mechanical strength, durability, UV resistance and excellent extrusion properties.

Typical features of the KK-SICO683 product,

- Excellent processing properties
- No need for pre-drying
- High mechanical strength and toughness
- Low water permeability
- No need for pre-drying
- UV resistance

The properties of this compound comply with the requirements of,

VDE 0207 Teil 24 (HM2, HM4 & HM5)
BS 7655 LTS1-4, HD 620 S2 DMZ 3-5
IEC 60502 Part 1; Type ST3; ST7

HD 632 S1; ST3; ST7, HD 620 S1 DMZ2
HD 603 S1 DMO 1, EN 50363-8 TM7
EN 50290-2-27, BS 7655 LTS1-4

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	g/10 min	0,5
Density (23°C)	ASTM D-792	g/cm ³	1,17
Hardness	ISO 868	Shore D	50
Mechanical Properties			
Tensile Strength	ISO 527	MPa	15
Elongation at Break	ISO 527	%	550
Heat Ageing (110 °C, 168 h)	IEC 60811		
Δ Strength		%	≤ 25
Heat Ageing (110 °C, 240 h)	IEC 60811		
Δ Strength		%	≤ 30
Tear Strength	ASTM D 1938	N/mm	20
Hot Pressure (Test at 110 °C, 6 h)	IEC 60811	%	<10
Cold Flex	ISO 458-2	°C	-40±2
Cold Bend (-40°C ±2 °C)	IEC 60811-504	-	No Cracks
Cold Impact (-40°C ±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption (70°C, 168 h)	IEC 60811-402	mg/cm ²	<1
LOI	ISO 4589	%	26
Smoke Density	EN-61034	% transmittance	>80
Other Properties			
Dielectric Strength	IEC 60243	kV/mm	> 10
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 120°C–130°C–140°C–150°C–160°C

Packaging:

It is packaged as 1000 kg in octabin.

Storage&Handling:

KK-SICO683 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

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