

Product Information:

KK-SICO682 is a thermoplastic, halogen free flame retardant black jacketing compound with high mechanical strength, durability, UV resistance and excellent extrusion properties.

KK-SICO682, contains 2.5% well dispersed furnace black of nominal particle size less than 25 nanometres in order to ensure excellent weathering resistance. The principle feature of this compound is the high physical strength and toughness. It can be used in areas sensitive to smoke or corrosive and toxic combustion products.

The properties of this compound comply with the requirements of,

VDE 0207 Teil 24 (HM2, HM4 & HM5)

HD 632 S1; ST3; IEC 60502 ST7, HD 620 S1 DMZ2

BS 7655 LTS1-4, HD 620 S2 DMZ 3-5

HD 603 S1 DMO 1, EN 50363-8 TM7

IEC 60502 Part 1; Type ST3; ST7; HD 620 DMZ1

EN 50290-2-27, BS 7655 LTS1-4, IEC 60840 ST12

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	g/10 min	0,4
Density (23°C)	ASTM D-792	g/cm ³	1,22
Hardness	ISO 868	Shore D	54
Carbon Black Dispersion	ISO 18553	-	2,5
Mechanical Properties			
Tensile Strength	ISO 527	MPa	14
Elongation at Break	ISO 527	%	500
Heat Ageing (110 °C, 240 h)	IEC 60811		
Δ Strength		%	≤ 25
Δ Elongation		%	≤ 25
Tear Strength	ASTM D 1938	N/mm	24
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			
Volume Resistivity 20 °C	ASTM D257	PΩ.cm	17
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

Screw Type: Hffr Screw, Tool type: Extra Pressure Tool

Packaging: It is packaged as 1000 kg in octabin boxes or 20 kg aluminum bags

Storage&Handling: KK-SICO682 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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