

Product Information:

KK-SICO483 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-SICO483 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,

EC 60502 Part 1 ST3; EN 50363-8 TM7
BS 7211; EN 50288
VDE 0250 Teil 215; BS 7655 LTS1-4

ASTM D 1248 Type I, Class A, Category 4
VDE 0207 Teil 24 (HM2, HM4 & HM5)
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	0,7
Density (23°C)	ASTM D-792	g/cm ³	1,15
Hardness	ISO 868	Shore D	48
Mechanical Properties			
Tensile Strength	ISO 527	MPa	16
Elongation at Break	ISO 527	%	600
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	≤ 20
UV Ageing	IEC 60811		
Δ Strength		%	≤ 20
Tear Strength	ASTM D 1938	N/mm	20
Hot Pressure (Test at 90 °C, 4 h)	IEC 60811-508	%	<20
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	%	28
Smoke Density	EN-61034	% transmittance	>80
Other Properties			
Dielectric Strength	IEC 60243	kV/mm	> 20
DC Volume Resistivity	IEC 60093	PΩcm	45
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-SICO483 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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