

Product Information:

KKX-423/CAT-XL silane crosslinkable natural compound system designed for insulation of low voltage energy cables. KKX-423 / CAT-XL is designed for Insulation of low voltage energy cables, range up to 6 kV.

KKX-423 is a low density polyethylene, copolymerised with vinyl silane. CAT-XL is an ambient crosslinking catalyst masterbatch specially designed to be used. The system is highly active and crosslinks quickly at in sauna or in hot water.

The proper mixture could be;

- 95% for KKX-423 (base polymer), 5% for CAT-XL (catalyst)
- 93% for KKX-423 (base polymer), 7% for CAT-XLB (black catalyst)

Crosslinking by immersion in 90°C hot water 2-6 hours; by exposure to low pressure water steam, 12-15 hours. It cures after 72 hours at room conditions.

Properties of this compound comply with the requirements of,

ASTM D 1248 Type I, Class A, Category 4	IEC 60502-1
HD 604 S1	HD 603 S1
NEMA WC 70	UL94

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C- 5 kg)	ASTM D 1238-13	g/10 min	0,75
Density (23°C)	ASTM D-792	gr/cm ³	0,935
Hardness	ISO 868	Shore D	54
Mechanical Properties			
Tensile Strength	ISO 527	N/mm ²	18
Elongation at Break	ISO 527	%	450
Heat Ageing (135 °C, 168h)	IEC 60811-401		
Δ Strength		%	≤±30
Δ Elongation		%	≤±30
Heat Ageing (150°C, 168h)	EN 60811-401		
Δ Strength		%	≤-30
Δ Elongation		%	≤-30
Hot Set Test (200 °C, 0,2 Mpa)			
Elongation under load	IEC 60811	%	<50
Permanent elongation after cooling	IEC 60811	%	<5
Chemical Properties			
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity	IEC 62631-3-1	PΩ.cm	10
Dielectric Strength	IEC 60243	Kv/mm	22

Extrusion Temperatures:

180°C – 185°C – 195°C – 205°C – 215°C – 220°C – 225°C– 230°C
(40 mesh double sieve and shalom tube should be used.)

Packaging:

KKX-423 is packaged as 20 kg in aluminum bags, 1200 kg pallets.

CAT-XL is packaged as aluminum multi-layer bags with a net content of 1 kg.

Storage&Handling:

KKX-423 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.

KABKOM KİMYA SANAYİ VE TİCARET A.Ş.

İbni Melek OSB TOSBİ Yol 1 No:13 PK:35900 Tire/İZMİR

Tel: +90 (216) 807 20 04 (pbx)

www.kabkom.com.tr

info@kabkom.com.tr

satis@kabkom.com.tr

