

Product Information:

Elastomer-based compound can be moisture cured with the addition of a catalyst masterbatch (Sioplas method). It is a cable compound for insulation and jacketing.

Cable insulation with a proper mixture of KKK-420G (95 parts) and CAT-XL (5 parts) exhibits excellent thermo-oxidative stability.

KKK-420G / CAT-XL in combination meets the applicable requirements as below when processed using sound extrusion and testing procedure:

EN 50363-1 EI7 and EI8

EN 50363-0 G7; ; IEC 60502 EPR and HEPR

EN 50363-2 EM6, IEC 60502-1

BS 7655 GP4, GP5, GP6 and GP7;

EN 60092/360 EPR and HEPR Cenelec HD 603 DIH1, DIH2

and DIH3; VDE 0207/20 3GI3

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C- 5 kg)	ASTM D 1238	g/10 min	1,3
Density (23°C)	ASTM D-792	gr/cm ³	0,89
Water absorption 24h at 100°C	EN 60811	mg/cm ²	1.00
Hardness	ISO 868	Shore D	39
Hardness	ISO 868	Shore A	85
Mechanical Properties			
Tensile Strength	EN 60811	N/mm ²	21
Elongation at Break	EN 60811	%	550
Heat Ageing (150°C, 168h)	IEC 60811-401		
Δ Strength		%	<25
Δ Elongation		%	<25
Heat Ageing (127°C, 40h)	IEC 60811-401		
Δ Strength		%	<25
Δ Elongation		%	<25
Hot Set Test (250°C,0.2 MPa)			
Elongation Under Load	IEC 60811-2-1	%	<100
Permanent Elongation After Cooling	IEC 60811-2-1	%	<10
Electrical Properties			
Volume Resistivity at 20°C	IEC 60250	Ω x cm	4.1 E+15
Insulation Resistance Constant at 20°C	IEC 60502	MΩ x km	1500
Dielectric Strength	ASTM D149	kV/mm	39

Extrusion Temperatures:

140°C – 145°C – 150°C – 155°C – 160°C – 160°C – 165°C – 165°C

Packaging:

KKK-420G 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:

KKK-420G 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.

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