

Product Information:

KKX-90S is a Halogen-Free Flame Retardant compound that can be cross-linked with catalyst masterbatch (CAT-SI) in the presence of heat and moisture. It is a highly flame retardant compound. This compound is designed for use in photovoltaic H1Z2Z2-K cables and is also designed for use in H07Z-R, H07Z-K, H05Z-U, H05Z-K cables.

The appropriate mixture should be,

- Photovoltaic H1Z2Z2-K cable type, 96% for KKK-90S and 4% for CAT-SI
- H07Z-R, H07Z-K, H05Z-U, H05Z-K cable types, 95% for KKK-90S and 5% for CAT-SI

Cross-linking by immersion in hot water at 90°C for 6-8 hours; By exposure to low pressure water vapor for 12-16 hours. It complies with,

EN 50525-3-41

EN 50618

TUV 2 Pfg 1169/08.2007 standard

Product Data:

Property	Test Method	Unit	Value	
Physical Properties				
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	g/10 min	4	
Density (23°C)	ASTM D-792	gr/cm ³	1,48	
Hardness	ISO 868	Shore D	51	
Mechanical Properties				
			Thermoplastic	Thermoset
Tensile Strength	ISO 527	MPa	15	12,5
Elongation at Break	ISO 527	%	280	250
Hot Set Test 200°C, 15 mins, 0.2 MPa	IEC 60811-507			
Elongation Under Load		%	<100	
Permanent Deformation		%	<5	
Hot set test 250°C, 15 mins, 0.2 MPa	IEC 60811-507			
Elongation Under load		%	<100	
Permanent Deformation		%	<5	
Heat Ageing (135 °C, 168h)	IEC 60811-401			
Δ Strength		%	+6	
Δ Elongation		%	-18	
Heat Ageing (150°C, 168h)	EN 60811-401			
Δ Strength		%	+7	
Δ Elongation		%	-20	
Hot Pressure Test at 100 °C	IEC 60811	%	<50	
Shrinkage 1h 120°C (after crosslinked)	60811-503	%	≤2	
Cold Elongation (-40°C±2°C)	IEC 60811-505	%	≤30	
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	IEC 60811	mg/cm ²	<5.0	
LOI	ISO 4589	%	35	
Smoke Density	EN-61034	% transmittance	>80	
Volume Resistivity 20 °C (Alternating Polarity)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁶	

Packaging: It is packaged in 1250 kg in octabin or 1250 in 25 kg aluminum package.

Extrusion Temperatures: 140°C – 145°C – 145°C – 150°C – 155°C – 160°C – 165°C

Storage&Handling: KKK-90S 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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