

ECCOH™
**LOW SMOKE AND FUME,
NON-HALOGEN
FORMULATIONS**

ECCOH™ Low Smoke and Fume, Non-Halogen Solutions

		5549 UV	Teck-90	5700	5801 UV	5865	5982 UV	6010	6151	6638 UV	XLS 8001
APPLICATION											
Type		Jacket	Jacket	Jacket	Jacket	Jacket	Jacket	Insulation	Tight buffer, Micro-tube	Jacket	Jacket
CABLE											
Type		LV, Data	LV	LV, Data, OFC	LV, Data, OFC	Data, OFC	LV, OFC	LV	OFC	Data, OFC	LV
MARKETS											
Type		B & C, Industrial	Industrial, Teck-90	B & C, Industrial	Industrial, Oil & Gas, Shipboard	B & C	B & C, Industrial	Automotive	B & C, Industrial	B & C, Industrial	B & C, Shipboard
Cross-linked		No	No	No	Yes	No	No	Yes	No	No	Yes
Cross-linking Method*		N/A	N/A	N/A	DS/E-beam	N/A	N/A	DS/E-beam	N/A	N/A	Sioplas
GENERAL PROPERTIES											
Properties as Thermoset					x			x			x
SG	g/cm ³	1.59	1.54	1.60	1.50	1.57	1.52	1.38	1.46	1.48	1.48
MFI, 150°C/21.6 Kg	g/10 min	2.8	5	6	3.5	4	5.9	4.4	6	3	6
Hardness	Shore D	44	54	50	46	50	54	56	53	53	49
Tensile	psi	1740	2610	1595	1800	1740	2320	3336	2466	2030	2030
Elongation	%	160%	200%	136%	133%	180%	150%	145%	160%	175%	160%
LOI	%	45%	36%	51%	39%	45%	41%	30%	33%	42%	33%
Low temp brittleness (LTB)	°C	-26.5°C	-49°C	-10.5°C	-30°C	-39°C	-38.5°C	-41°C	-35.5°C	-26	-40.5
Max. Continuous Use Temp	°C	90°C	90°C		105°C		90°C	125°C	90°C	90°C	105°C
SMOKE DENSITY (MAX)											
Flaming Mode		45	104	312	163	312	118	98	60	101	121
Non-Flaming Mode		212	279	303	416	297	369	296	223	296	393
FEATURES											
ESCR							x				
Flame Performance		x		x		x	x			x	
Heat Resistance					x			x			x
High Char Forming		x									
Low Temperature Performance			x		x						
Mechanical Properties			x							x	x
Oil Resistance					x						
UL Listed Halogen-Free		x			x					x	

*Dry Silane abbreviated as DS

**Cross-linked using Sioplas method

ECCOH™

ECCOH™ non-halogenated formulations are designed to be highly flame retardant with extremely low toxicity and smoke density. These solutions are the answer for environments where smoke mitigation is of particular concern, such as those within closed spaces where means of escape is restricted (e.g., hotels, large office blocks, off-shore installations, trains, metros, and ships).



FEATURES

Wire and Cable

- Highly flame retardant
- Very low toxicity and smoke density
- Many grades are cross-linkable
- Can be processed with color or additive concentrate, and with UV stabilizer

Pipe and Fittings

- Highly flame retardant
- Very low toxicity and smoke density
- Suitable for extrusion, injection molding

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