



### Our Know-how – Your Advantage

Our flame-retardant TPEs are halogen-free and your solution for high fire protection requirements. These special compounds are self-extinguishing and characterized by low toxicity. Different hardnesses and colors are available.

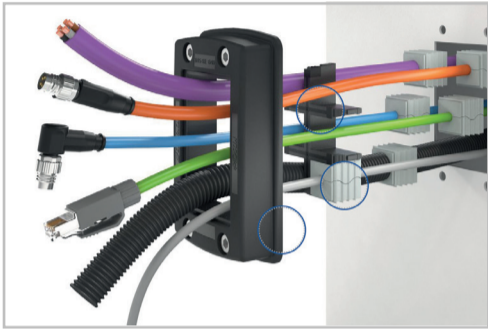
- Halogen-free flame retardant
- UL 94 V-0
  - » FR1 series @ 3 mm (Yellow Card)
  - » FR3 series @ 1.5 mm
- Certification according DIN EN 45545-2 R22 HL3 and R23 HL3
- UL-listings for all colors and hardnesses
- Processing via injection molding and extrusion
- Excellent adhesion to Polyolefines (PP)
- Excellent Glow Wire Ignition Temperature
- Low long-term compression set at elevated temperatures

**Johanna Schmid**  
 Market specialist

“Our halogen-free flame retardant TPEs score highly in terms of safety and health in use thanks to their low smoke gas toxicity in the event of fire. Users of halogen-free product solutions also benefit when it comes to disposal at the end of the product life cycle.”

### Typical Applications

- Cable management systems
- Grommets
- Cable glands
- Busbars




### Technical Data

		TC5FRN (FR1 Series)	TC50FR-NTRL (FR3 Series)	HTV1340/ 122
Hardness	Sh A	48	52	45
Density	g/cm³	1.120	1.150	1.070
Tensile Strength	MPa	2.5	3.2	2.1
Tear Resistance	N/mm	14.0	17.0	7.6
CS 72 h/23 °C	%	10	10	17
CS 22 h/70 °C	%	24	27	41
CS 22 h/100 °C	%	-	71	48
UL 94 Vertical Burning		V0 (3 mm) (Yellowcard)	V0 (1.5 mm) (Internal test)	V0 (1.5 mm) (Internal test)
LOI	%	< 32	> 32	> 32
GWFI @ 2 mm	°C	-	960	960
GWFI @ 3 mm	°C	960	-	-
DIN EN 45545-2 R22 HL3 and R23 HL3		-	yes	-

### TALK TO OUR EXPERTS!

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