



## CELLO® HL FIRESTOP R (HLFR)

Fire-protective heavy layer made from thermoplastic polyolefins with a high content of mineral fillers and fireproofing agents.

Applications: As fire containment barrier with additional sound-attenuation function in buses/utility vehicles, rail vehicles



## TECHNICAL DATA

## FLAMMABILITY

- ▶ FMVSS 302, DIN 75 200: fulfilled
- ▶ ISO 3795: burning rate < 100 mm/min
- ▶ ECE R-118: annexes 6, 7 and 8 fulfilled (HLFR 5 SK)
- ▶ UL 94: V-O (HLFR 5)
- ▶ EN 45545-2: R1 + R7 + R17, HL 3 fulfilled (HLFR 5 SK + HLFR 8 SK)



## TEMPERATURE RESISTANCE

placed on a steel surface: -40°C to +110°C, flame protection activated at 220°C

## THERMAL CONDUCTIVITY

EN 12667:  $\leq 0.123 \text{ W/(m·K)}$  at 10°C

## WEIGHT

HLFR 5:  $5 \text{ kg/m}^2$       HLFR 8:  $8 \text{ kg/m}^2$

## HARDNESS

DIN 53505:  $85 \pm 10$  Shore A

## STRAIN VALUES

DIN 53504: elongation at break > 20%

## LOSS FACTOR

DIN EN ISO 6721-3: applied on 1 mm steel sheet at 20°C / 200 Hz: > 0.08 (HLFR 5)

## ELECTRICAL RESISTANCE

DIN EN 1081: volume resistance  $R_v$ :  $7 \cdot 10^9 \Omega$       surface resistance  $R_s$ :  $5.3 \cdot 10^{10} \Omega$

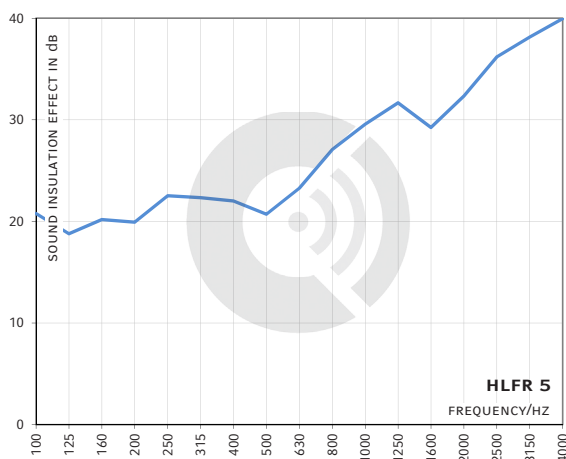
## DIMENSIONS

PRODUCT	THICKNESS [mm]	THICKNESS TOLERANCE [mm]	SHEETS* [mm]
HLFR 5	2.5	$\pm 0.5$	1050 X 1250 or 2100 X 1250
HLFR 8	4.0	$\pm 0.5$	1050 X 1250 or 2100 X 1250

Other thicknesses / dimensions on request. Ready-to-use parts according to your specifications or drawing.

\*Untrimmed: Effective dimensions guaranteed as ordered, may be exceeded by some layers (foam, film, non-woven etc.).

## TRANSMISSION LOSS / TEST PROCEDURE SIMILAR TO DIN EN ISO 10140-2



## BENEFITS

- ▶ Prevention of flame propagation
- ▶ Fire containment solution
- ▶ Exceptional fire performance
- ▶ Good sound insulation values
- ▶ High aging stability

## OPTION

NK: no self-adhesive equipment  
SK: with self-adhesive finish

## ADVICE

When applied on vertical surfaces or overhead, additional mechanical fixation is recommended.

## SEE OUR PROCESSING AND STORAGE INSTRUCTIONS

## ISO 9001 CERTIFIED

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