

Foam

FITCO® Foam PE

FITCO® Foam PE profiles are heat and impact insulation materials made of non-cross-linked expanded polyethylene with a closed cell structure. It is specially designed for the automotive industry and complies to all specific requirements and is also suitable for the protection of Bowden cables.

FITCO® Foam PE is particularly suited for the thermal insulation of water-based EV battery cooling systems.

The product is 100% CFC and HCFC free.

Operating temperature:	-40°C to +90°C
Shrink ratio:	About 3.7% shrinkage after 72h
Standard colors:	Grey Other colors on request

Description	Inner diameter* (mm)	Tolerance ID (mm)	Outer diameter (mm)	Tolerance OD (mm)
FITCO®Foam PE 4.0x9.6	4.0	± 0.5	9.6	± 1.0
FITCO®Foam PE 4.0x11	4.0	± 0.5	11	± 1.0
FITCO®Foam PE 5.0x11	5.0	± 0.5	11	± 1.0
FITCO®Foam PE 5.0x12	5.0	± 0.5	12	± 1.0
FITCO®Foam PE 5.5x12	5.5	± 0.5	12	± 1.0
FITCO®Foam PE 15x23	15	± 0.5	23	± 1.0
FITCO®Foam PE 17x25	17	± 0.5	25	± 1.0
FITCO®Foam PE 19x27	19	± 0.5	27	± 1.0
FITCO®Foam PE 21x29	21	± 0.5	29	± 1.0
FITCO®Foam PE 23x31	23	± 0.5	31	± 1.0
FITCO®Foam PE 24x44	24	± 1.0	44	± 2.0

*Other dimensions on request

Note: Min. wall thickness 4mm

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Packaging: On spools, cut lengths or printed tubing on request.

Properties	Test Method	Typical Value
Mechanical		
Specific density	ISO 845	25 ±5 kg/m³
Tear propagation strength	DIN ISO 34-1 (2016-09)	0.69 kN/m
Hardness	Shore 00	<50 ('extra soft')
Thermal		
Flammability	FMVSS 302 (2024-04) DIN 75200 ISO 3795 TL 1010 (2008-01) TL 1010 (2009-01) after heat ageing: 168h / +80°C	Compliant
Chemical		
Water absorption in 7 days	ISO 2896	< 2%
Odour test	PV 3900 (2019-04) VW 50180 (2019-04) (condition 2 & 3)	Compliant
Total carbon emission with single substance evaluation	PV 3341 (1995-03) VW 50180 (2019-04)	Compliant
Formaldehyde emission	PV 3925 (2021-01)	Compliant
Fogging, gravimetrically	PV 3015 (2024-05) DIN 75201-B (2024-06)	Compliant
Electrical		
Heat conductivity at 10°C	EN 12667	0.038 W/mK

Key Benefits:

- 100% CFC and HCFC free
- Closed cell structure
- Non-cross-linked PE