



## PE-FOAM

**MP15FR,**  
IPS 04-14-005-04  
**MP15FR/63**  
IPS 04-14-005-01

<b>Versions</b>	<b>non adhesive, AIMS 04-14-005A (MP15FR) (Thickness max. 30mm)</b> <b>self adhesive, AIMS 04-14-005C (MP15FR/63) (Thickness max. 30mm)</b>
Applications	thermal insulation for doors, cargo section, tube & valve systems
Material	closed cell, cross linked Polyethylene-Foam
Colour	grey
Typical properties	flexible, hot formable, low density PE MP15FR resistant to phosphoric acid ester e.g. Skydrol 500B, MP15FR/63 with pressure sensitive adhesive (psa)
Density	max .18 kg/m <sup>3</sup> (without adhesive)
Thickness	sheets available acc. to ABS 5088, or from 2 mm up to 250 mm
Dimensions	2000 mm x 1000 mm
Flame Propagation	meets the requirements of ABD 0031, CS/FAR 25.856(a), & CS/FAR-25, App.F, Part VI; Test Standard AIM 2.0053
Temperature range	-55 °C to +85 °C
Characteristics	<ul style="list-style-type: none"> <li>- good mechanical performance at low weight</li> <li>- very low water absorption</li> <li>- low water vapour transmission rate</li> <li>- excellent resistance to chemical weathering</li> <li>- odourless</li> <li>- non-toxic</li> <li>- non-staining</li> </ul>
Processing	PE-Foam can be ... <ul style="list-style-type: none"> <li>- cut</li> <li>- skived</li> <li>- welded</li> <li>- bonded</li> <li>- punched</li> <li>- thermo laminated</li> <li>- thermo formed</li> <li>- press formed</li> </ul> <p style="text-align: right;">... without problems !</p>



## PE-FOAM PE-FOAM, self adhesive

**MP15FR,**  
IPS 04-15-005-04  
**MP15FR/63**  
IPS 04-14-005-01

### MP15FR acc. to AIMS 04-14-005A

Properties	Standard	Unit	MP15FR
Density	ISO 845	kg/m <sup>3</sup>	max. 18
Cell size	ISO 2896	mm	≤ 1.2
Compression stress value (CV40)	ISO 3386-1	kPa	>40
Tensile strength	ISO 1798	kPa	>250
Elongation at break		%	>80
Compression set Compressed by 50 % at 23 °C for 72 h	ISO 1856B	%	max. 45
Water absorption 168 h	ISO 2896	%	max. 4
Storage time			unlimited
Thermal conductivity at 25 °C	ISO 8302	$\frac{W}{m \cdot k}$	max. 0.050
Flame Propagation	AITM 2.0053	Requirement: CS/FAR 25.856(a), & CS/FAR-25, App.F, Part VI, § (h)	
Smoke density	AITM 2.0007	DS4 min	max.100
Smoke gas components	AITM 3.0005	ppm HF max. 100, HCl max.150, HCN max. 150, SO <sub>2</sub> /HS max. 100, NO/NO <sub>2</sub> max. 100, CO max. 1000	

### MP15FR/63 acc. to AIMS 04-14-005C

Properties	Standard	Unit	MP15FR
Density *	ISO 845	kg/m <sup>3</sup>	max.18 (without adhesive)
Cell size *	ISO 2896	mm	≤ 1.2
Compression stress value(CV40) *	ISO 3386-1	kPa	>40
Tensile strength *	ISO 1798	kPa	>250
Elongation at break *		%	>80
Peel strength after 72h	AIMS 04-14-000	N/25 mm	No adhesion failure
Compressions set * Compressed by 50 % at 23 °C for 72 h	ISO 1856B	%	max. 45
Water absorption 168 h *	ISO 2896	%	max. 4
Storage time @ 10-25°C, 10-70% RH		months	12
Thermal conductivity at 25 °C *	ISO 8302	$\frac{W}{m \cdot k}$	max 0.050
Flame Propagation	AITM 2.0053	Requirement: CS/FAR 25.856(a), & CS/FAR-25, App.F, Part VI, § (h)	
Smoke density	AITM 2.0007	DS4 min	150 max.
Smoke gas components	AITM 3.0005	ppm HF max100, HCl max.150, HCN max. 150, SO <sub>2</sub> /H <sub>2</sub> S max. 100, NO/NO <sub>2</sub> max. 100, CO max. 1000	

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### MP15FR

IPS 04-14-005-04

### MP15FR/63

IPS 04-14-005-01

