

# Specification Sheet / 01

## XLPE-29 - Closed Cell Cross-Linked Polyethylene Foam



Certificate No. 11738-EMS-001  
ISO 9001:2015 ISO 14001:2015

Description	Test	Standard value	Unit
Density	ISO 845	29	Kg/m <sup>3</sup>
Tensile Strength - MD	ISO 1798	33.3	kPa
Tensile Strength - TD	ISO 1798	272	kPa
Elongation - MD	ISO 1798	104	%
Elongation - TD	ISO 1798	114	%
Compression 10%	ISO 844	23	kPa
Compression 25%	ISO 844	43	kPa
Compression 50%	ISO 844	104	kPa
Compression Set – 0.5 Hrs	ISO 1856	15	%
Compression Set – 24 Hrs	ISO 1856	8.5	%
Working Temperature Range	Internal	-60 \ 90	°C
Water Absorption %Vol (max)	Internal	1	%
Water Vapour Transmission	ISO 1663	1.2	g/m <sup>2</sup> *24h
Thermal Conductivity at 10C	ASTM C177	0.0380	W/mK
Thermal Conductivity at 40C	ASTM C177	0.0420	W/mK
Flammability	FMVSS302	71	mm/min

XLPE-29 is a closed cell cross-linked polyethylene foam sheet

Tolerances other than the above may be negotiated.

Dimensional stability 24 hr at 70C < 2%.

If pinholes were created during the foaming process, no more than 6 holes of diameter 2mm per 1m<sup>2</sup> of sheet are acceptable.

MD – machine direction – along the extruder's axis.

TD – traverse direction – Perpendicular to the extruder's axis.

This information on XLPE-29 chemically cross-linked polyethylene foam is presented to the best of our knowledge. Data represents typical values measured on a 10mm thick specimen and should be considered as guidelines only.

Change Control Date	Change
30/08/2013	Created
05/07/2023	Updated



The above figures are average values.  
We recommend that you examine any material you select to ensure its suitability for your application.  
Tolerance(s) applied in accordance with ASG specification No W1007 (<https://bit.ly/3nKm6Hj>) unless otherwise stated.  
Our standard terms and conditions of trading (<https://bit.ly/3b3mThw>) apply at all times.

