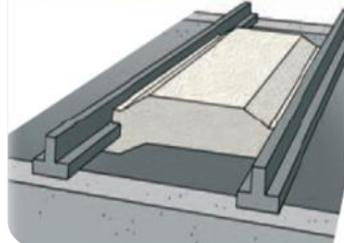
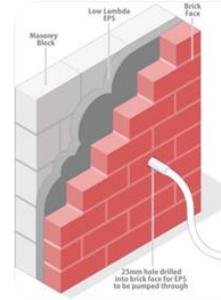


Excell-R[®] Grey EPS

Applications

Grey EPS applications

Source of Innovation for the Construction Industry





Excell-R[®] Grey EPS

A range of
Enhanced EPS raw material beads
dedicated to Insulation

EPS grades with an Excellent R-value

A range of Enhanced EPS beads dedicated to Insulation



Applications:

Excell-R[®] can be processed into **foamed insulation boards** & shaped articles, with **improved thermal insulation properties**.



Standard grades

EPS XLR 5350
EPS XLR 5550

Standard grades are design for applications such as:

- Insulation foamed boards
- Doublage
- Cavity wall filling
- Sandwich Panels

...

Packaging :
1100 kg Octabin



Self-Extinguishing grades

EPS XLR 5359 SE
EPS XLR 5559 SE

SE Grades contain a flame retardant for applications such as:

- Insulation foamed boards
- Outdoor wall insulations (ETICS)
- Cavity wall filling
- Insulated concrete forms (ICF)

...

Packaging :
1100 kg Octabin

EPS grades with an Excellent R-value

Technical data of Excell-R[®]



Excell-R : all the strengths of traditional EPS with **improved thermal resistance**.

- Typical bead diameter
Spread 0.9 – 1.6 mm
1.25 mm
> 90%
- Typical bulk density
625 kg/m³
- Expansion gas
Weight ratio
pentane
< 5.6% (time of packaging)
- Moisture content
< 0.3%
- Flammability class*
DIN 4012;
Euroclass;
Referential LNE*
B1*
E*
Conform

* For the Self Extinguishing grades



Technical Performance



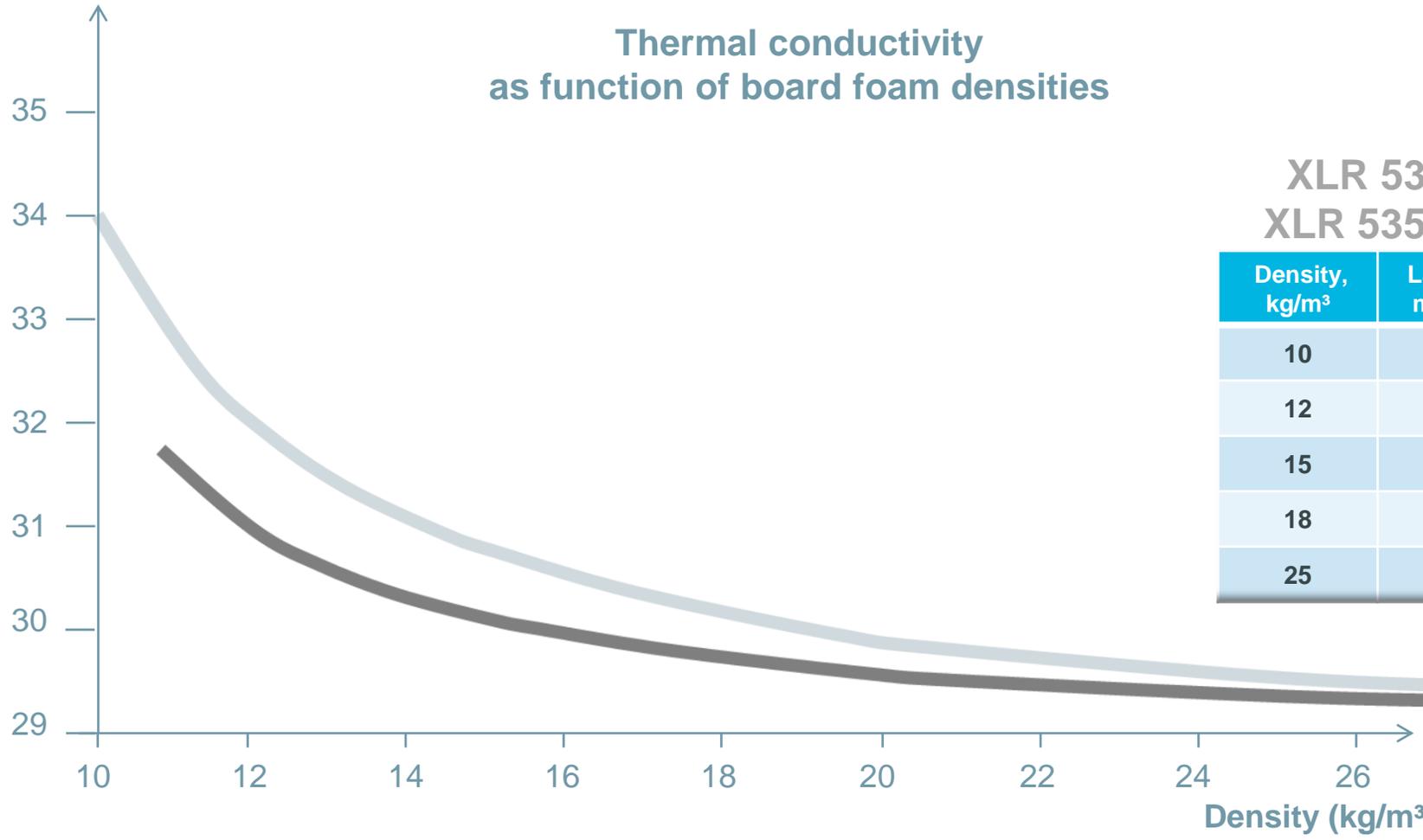
EPS Excell-R®

For Building Insulation



Lambda (mW / m.K)

Thermal conductivity
as function of board foam densities



**XLR 5350
XLR 5359SE**

Density, kg/m³	Lambda, mW/mK
10	34
12	32
15	31
18	30
25	29.6

**XLR 5550
XLR 5559SE**

Density, kg/m³	Lambda, mW/mK
12	31
14	30.5
16	30
25	29.4

Indicative values

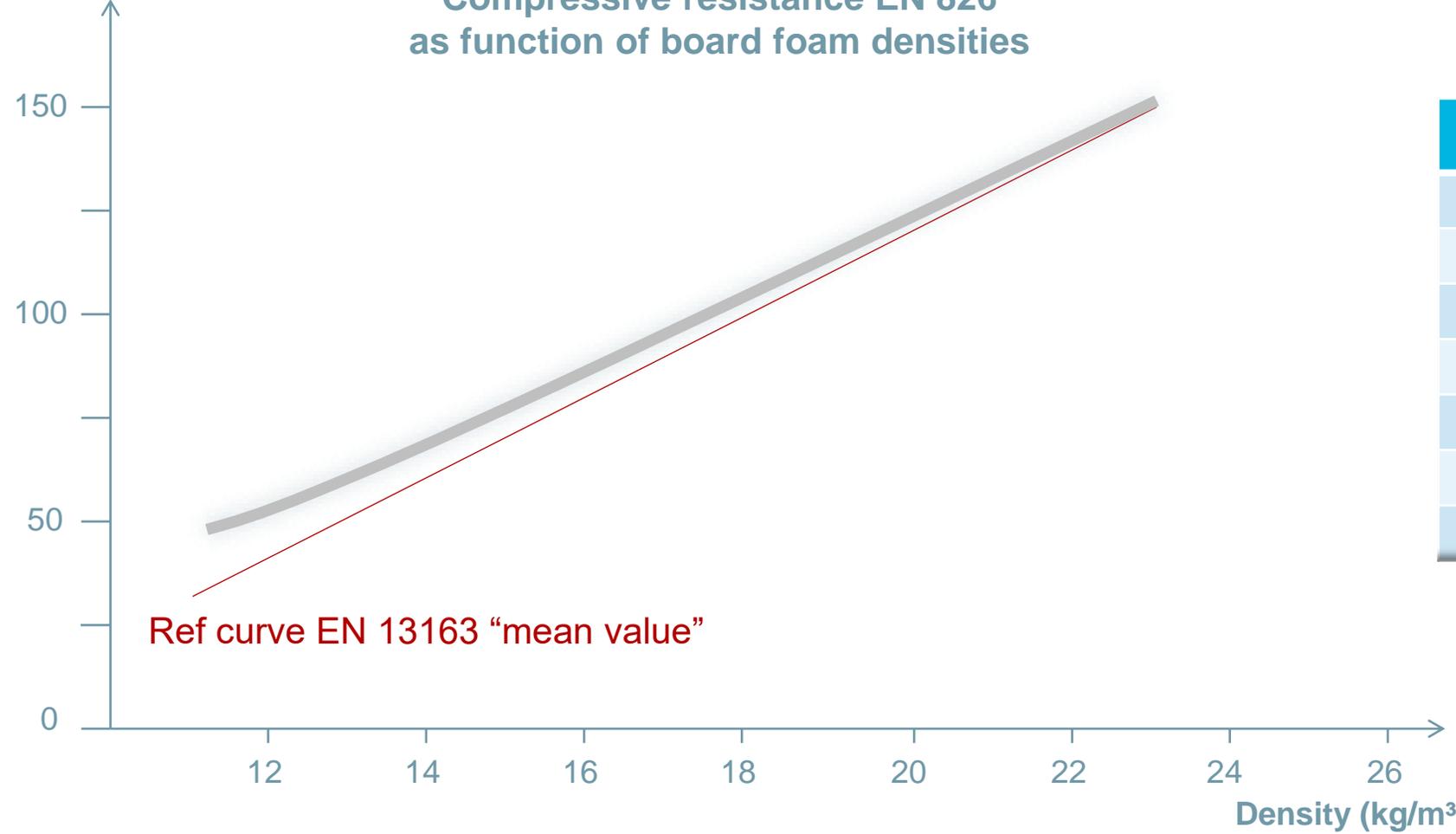
EPS Excell-R[®]

For Building Insulation



CS 10: Compressive Strength at 10% deformation (kPa)

Compressive resistance EN 826 as function of board foam densities



Density, kg/m ³	CS 10, kPa
12	55
12.5	60
14	70
15	80
18	100
24	150
30	200

Indicative values



**Excell-R[®] Grey EPS
sustainable offer**

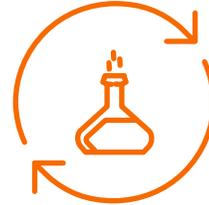
TotalEnergies Polymers Sustainable Offer

An Acceleration Of Projects



Mechanical Recycling

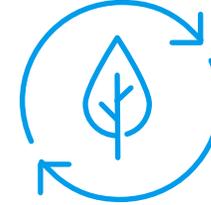
Excell-R grades in development
with **20%** recycled content
XLR 5550-C20
XLR 5359SE-C20



Advanced recycling

Certified Circular Polymers
Conversion of pyrolysis to
PE/PP/PS/EPS

Using Mass balance
ISCC Plus certification



Bio-sourcing

Certified Renewable Polymers
PE/PP/PS/EPS

Using Mass balance
ISCC Plus certification