

Grade Ref	Bead size range > 95% beads (mm)	Typical application
<b>Flame retardant grades</b>		
<b>Flame retardant</b>		
F11B	1.12 - 2.50	Low density block including elastified block for impact and airborne sound insulation.
F21B, F21M, F21R	0.80 - 1.80	Low to medium density block including external insulation and elastified block for impact and airborne sound insulation. Floor elements.
F32M, F32R	0.50 - 1.12	Medium to high density block moulding such as sandwich panels. Shape moulding (>10mm) such as moulded building elements.
<b>Reduced Pentane, Flame retardant</b>		
RF23M	0.90 - 1.80	Fast moulding cycle medium density block and large shape moulding.
RF33M	0.60 - 1.10	Fast moulding cycle medium to high density block such as sandwich panels and shape moulding (>10mm) for e.g. moulded building elements and perimeter boards.
RF43M	0.40 - 0.80	Fast moulding cycle high density shape moulding, thin wall compatible for e.g. ceiling tiles, moulded panels and decorative profiles.
<b>EPS Regular grades</b>		
<b>General purpose, Regular</b>		
GP21B	0.90 - 1.80	General purpose block moulding at low to medium density for e.g. cut packaging and large shape moulding. Good recycle acceptance.
GP31B	0.50 - 1.10	General purpose shape and block moulding at medium to high density. Shape moulding >10mm.
<b>Reduced thermal conductivity, Regular</b>		
T21B	0.90 - 1.80	Low to medium density block with reduced thermal conductivity. Good recycle acceptance.
T32B	0.50 - 1.10	Medium to high density block with reduced thermal conductivity. Shape moulding > 10mm.
<b>Packaging with improved mechanical properties, Regular</b>		
MP32W	0.50 - 1.00	High strength block and shape moulding at medium to high density and short moulding cycle time for e.g. white goods packaging, fish boxes.
MP42W	0.40 - 0.80	High strength shape moulding, thin wall <10mm at short moulding cycle time.
<b>Reduced pentane, Regular</b>		
RP33W	0.50 - 1.00	Fast moulding cycle medium to high density block and shape moulding for e.g. home appliance packaging, heated floor elements.
RP43W	0.40 - 0.80	Fast moulding cycle medium to high density shape moulding. Thin wall <10mm.
<b>Performance Products (Expandable)</b>		
<b>EPS Cup</b>		
D833B	0.30 - 0.50	Dry moulding for drinking cups and containers, shape moulding.
D933B	0.20 - 0.40	Dry moulding for regular and thin-wall cups and containers.
<b>EPS Light weight Brick and Plaster</b>		
B733B	0.30 - 0.80	Cellular bricks from a mixture of pre-expanded beads and clay fired in a high temperature kiln.
B933B	0.20 - 0.40	Cellular bricks. Insulation paste from a mixture of pre-expanded beads and plaster.
<b>EPS Silver Polymers</b>		
S200R	1.60 - 3.15	Low density insulation board with enhanced thermal insulation properties. Can be elastified for thermal and acoustic insulation.
S400R	0.80 - 2.00	Low density insulation board with enhanced thermal insulation properties. Can be elastified for thermal and acoustic insulation.
S500R	0.56 - 1.12	Medium to high density insulation board and shape moulding with >10mm walls with enhanced thermal insulation properties.



## EPS Grade Nomenclature\*

System: 1-2 letters + 2 digits + 1 letter

### First Letter: Grade Family

<b>F</b>	Flame retardant
<b>RF</b>	Reduced pentane flame retardant
<b>GP</b>	General purpose regular
<b>MP</b>	Packaging with improved mechanical properties
<b>RP</b>	Reduced pentane regular
<b>T</b>	Reduced thermal conductivity regular

First Digit:  
Bead Size range > 95%  
beads (mm)

### Second Digit: Performance

<b>1</b>	Best expansion
<b>2</b>	Intermediate
<b>3</b>	Fast cycle time

### Second Letter: Production Site

<b>B</b>	Breda
<b>M</b>	Marl
<b>R</b>	Ribécourt
<b>W</b>	Wingles

### For Example

#### Grade F11B

Flame retardant, 1.12-2.5mm, best expansion, produced in Breda.

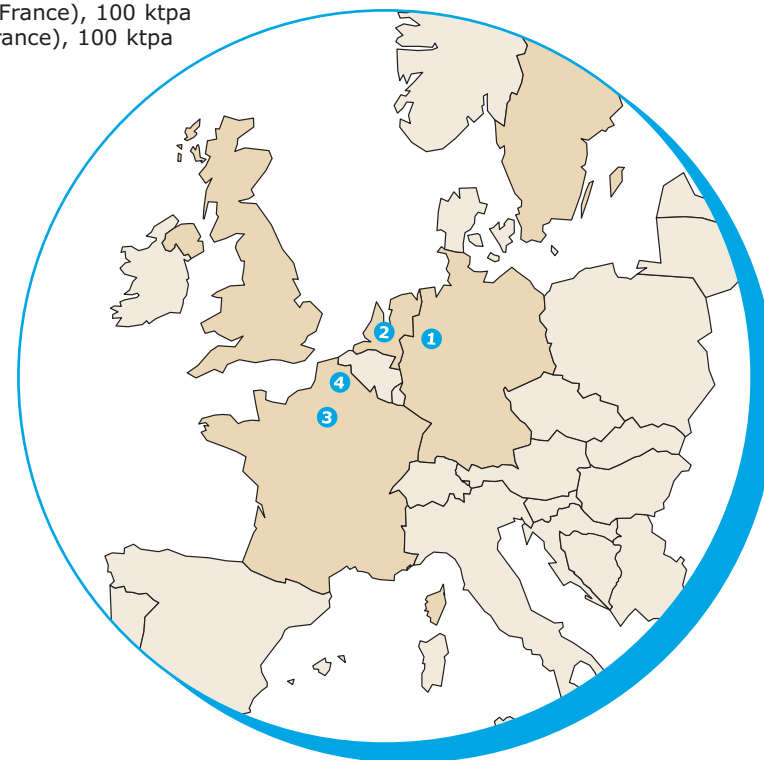
#### Grade RP33W

Reduced pentane regular, 0.5-1.0mm, fast cycle time, produced in Wingles.

For more information on the INEOS NOVA grade range please go to:  
[www.ineos-nova.com](http://www.ineos-nova.com) > Products > Expandable Polystyrene > Product Directory

## Location and capacities

- ① Marl (Germany), 100 ktpa
- ② Breda (The Netherlands), 110 ktpa
- ③ Ribécourt (France), 100 ktpa
- ④ Wingles (France), 100 ktpa



\*Does not apply for EPS Performance Products.