



# Hot melt adhesives

EVA & EBA



New

REPSOL

Primeva



Multiplying our EVA solutions:

**Trust**

Developing products to meet our clients' needs and supplying on a regular basis across Europe

**Safety**

Reducing residual VA content beyond European Legislation

**Innovation**

One of the largest portfolios in the industry, complying with the highest European certifications



New

REPSOL

Ebantix 

Unique added value of EBA copolymers to boost your business through:

**Versatility** Our production process enables us to continuously increase our portfolio according to our clients' needs

**Unique attributes** Its flexibility and transparency make it suitable for film applications

Excellent processing, thermal stability and adhesion properties to meet the requirements of cables and adhesive markets

## Repsol Primeva® & Repsol Ebantix®

### Understanding your needs

At Repsol we are committed with the development of new products for our clients. We are in constant search of **innovative solutions to meet all your needs**. Our goal is to develop cutting-edge products to offer **reliable and quality solutions** to enhance your business. Due to this vision Repsol displays one of the widest ranges of EVA & EBA copolymers in the market.

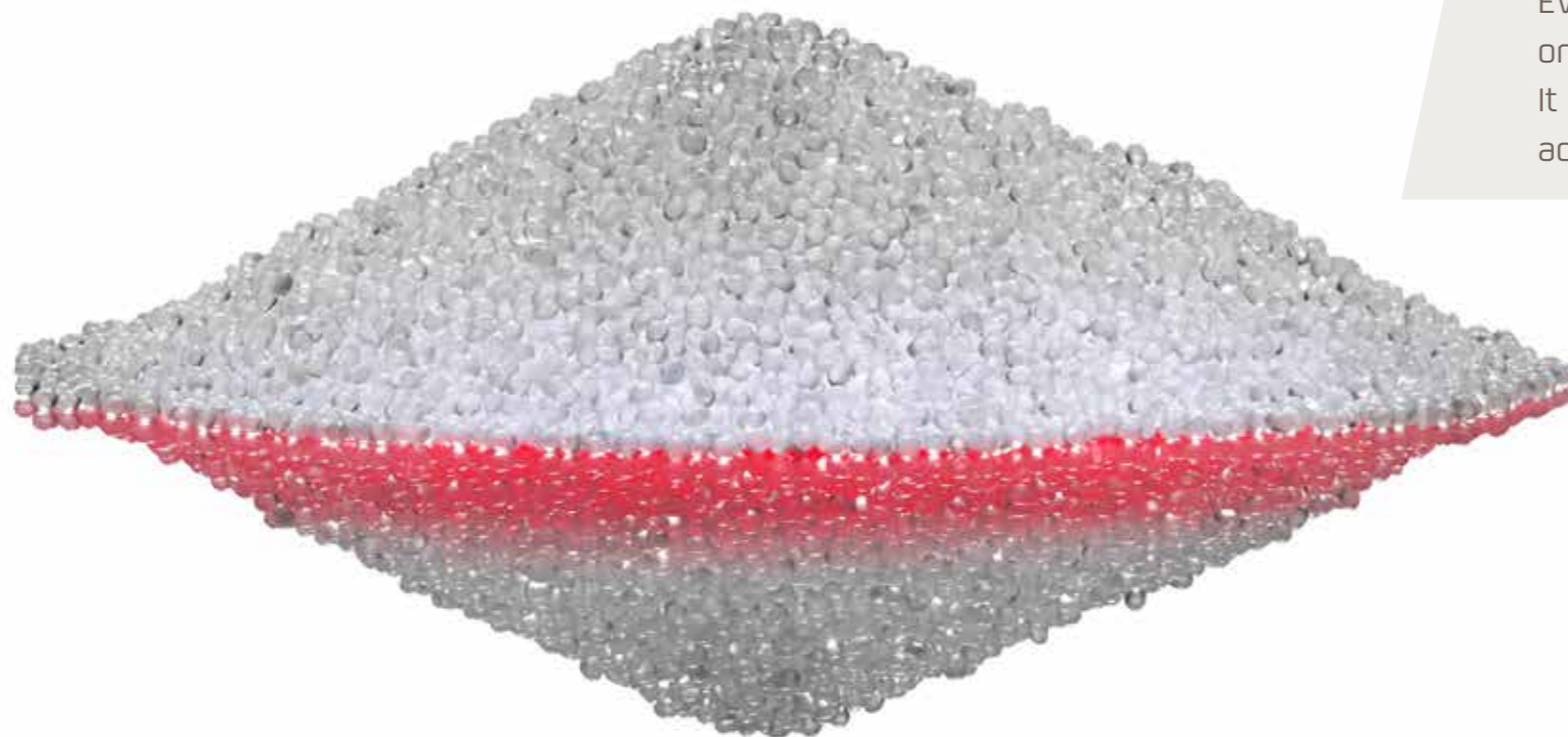
Over **43** years of experience  
in the market

During our **43 years of experience** we have developed an integrated chemical business. This way at Repsol we control all **key factors of the value chain**: research, development, manufacturing and distribution.

But we know providing quality products is not enough. Ensuring **availability and supply** is also fundamental to run any business. Therefore Repsol is **the partner you can trust** when it comes to quality, flexibility and safety.

### We stick by this innovation

EVA & EBA are used to improve sticking and unsticking on porous elements, such as paper or cardboard. It provides improved moisturising and mechanical adherence for substrates.



REPSOL

Primeva



REPSOL

Ebantix



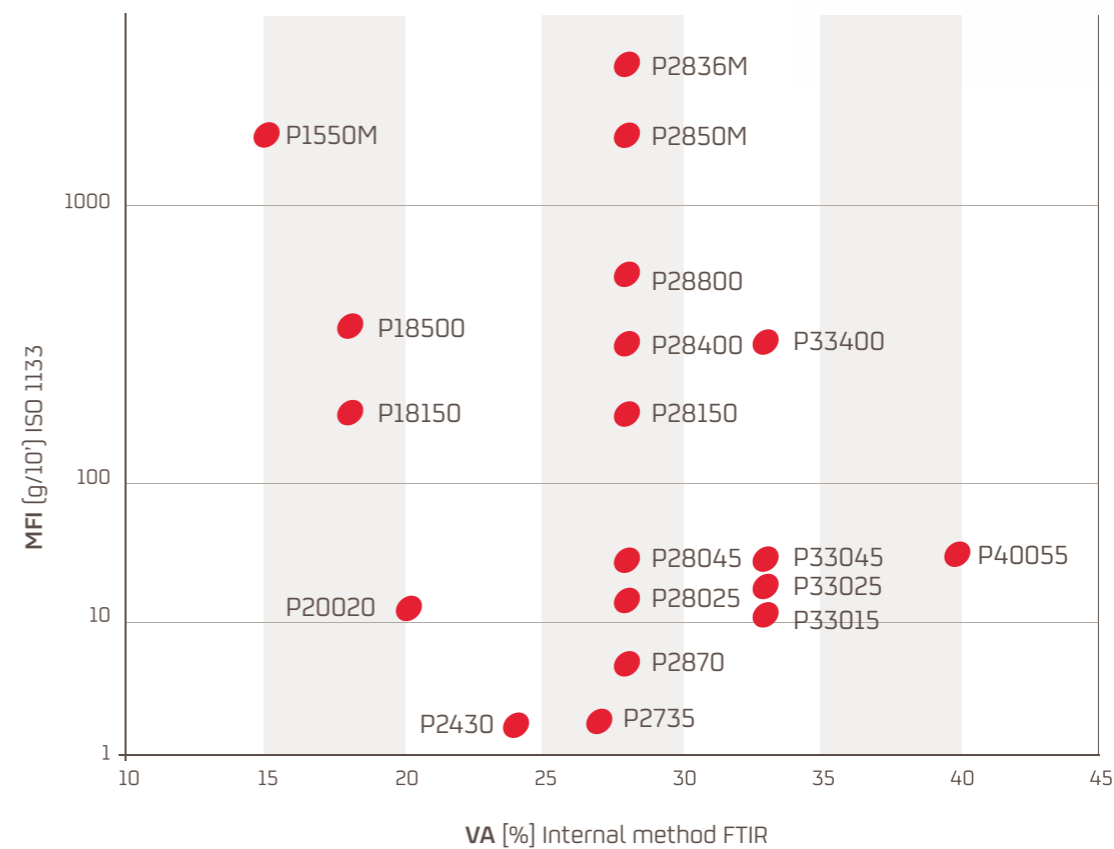
## Two solutions. Countless advantages

- Two complementary ranges of copolymers
- High quality products surpassing all European Standards
- High consistency
- High fluidity grades
- For a wide range of adhesives
- Constant product innovation
- Research of new applications
- Strong customer service orientation
- An integrated chemical company, a reliable supplier

The new Repsol Primeva® grades for hot melt adhesives have been designed for the highest technical requirements of the hot melt industry as well as for the current and future needs of adhesive industry.



### Repsol Primeva® portfolio for hot melt adhesives



The information contained herein is based on REPSOL QUIMICA's current knowledge and experience and is presented in good faith for guidance only. Although REPSOL QUIMICA declares to have been most diligent when including the information contained herein, taking into account that several and different factors may affect the processing, application or use of the products, the convertor shall be responsible in every case for the conditions under which the products are transformed as well as for the final use given to them. REPSOL QUIMICA warns that this information may undergo variations or improvements; therefore REPSOL QUIMICA is not obliged to reflect these in this document or to communicate them to whomever may have access to it. Moreover, these readers should be aware that some or all of the products might be protected by intellectual property rights.

## New ultrastable Repsol Primeva® for hot melts

All the new Repsol Primeva® grades for hot melts have been designed to be ultrastable against thermal degradation, reducing the colouring of the adhesive and maintenance stops.

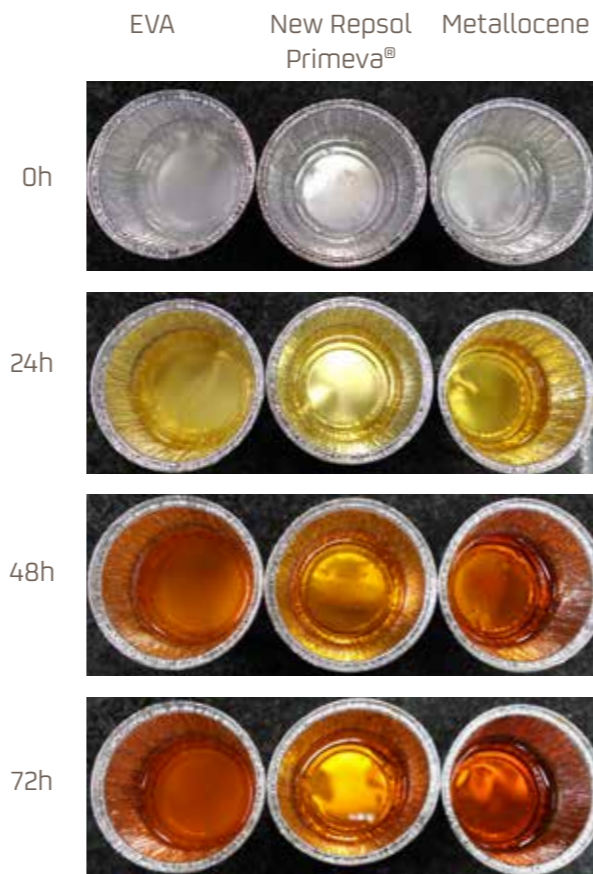
### Oxidation Induction Time 190 °C, min

EVA	New Repsol Primeva®	Metallocene
38	> 90	54

Test carried out according to ISO 11357-6



### Ageing test performance at 170°



Test carried out according to ASTM D794

Grade	VA [%] Internal method FTIR	MFI g/10' ISO 1133
P1550M	15	*
P18150	18	150
P18500	18	500
P20020	20	20
P2430	24	3
P2735	27	3.5
P2870	28	7
P28025	28	25
P28150	28	150
P28400	28	400
P28045	28	45
P28800	28	800
P2850M	28	*
P2836M	28	**
P33015	33	15
P33025	33	25
P33045	33	45
P33400	33	400
P40055	40	55

\* Viscosity= 5,000 cP [190°C]

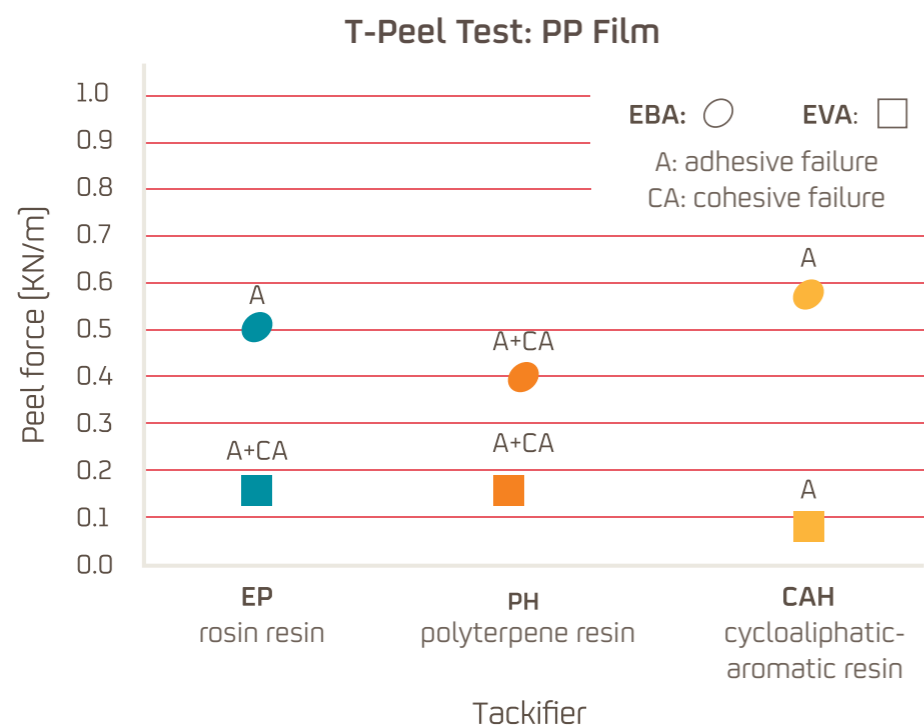
\*\* Viscosity= 3,600 cP [190°C]

The information contained herein is based on REPSOL QUIMICA's current knowledge and experience and is presented in good faith for guidance only. Although REPSOL QUIMICA declares to have been most diligent when including the information contained herein, taking into account that several and different factors may affect the processing, application or use of the products, the convertor shall be responsible in every case for the conditions under which the products are transformed as well as for the final use given to them. REPSOL QUIMICA warns that this information may undergo variations or improvements; therefore REPSOL QUIMICA is not obliged to reflect these in this document or to communicate them to whomever may have access to it. Moreover, these readers should be aware that some or all of the products might be protected by intellectual property rights.

The new Repsol Ebantix® grades for hot melt adhesives have been designed to obtain the maximum performance of the final hot melt in a wide range of service temperatures, high adhesion and very high stability against thermal degradation.

### High adhesion to difficult substrates

Repsol Ebantix® for hot melt has high adhesion to those difficult substrates like polypropylene or aluminum.



Test carried out in collaboration with the University of Alicante. Peel test according to UNE/EN ISO 11339

Grade	BA [%] Internal method FTIR	MFI g/10' ISO 1133
E1715	17	1.5
E1770	17	7
E20020	20	20
E27150	27	150
E33150	33	150

Advanced mechanical and optical properties with good adhesion to several substrates and easy processing

The information contained herein is based on REPSOL QUIMICA's current knowledge and experience and is presented in good faith for guidance only. Although REPSOL QUIMICA declares to have been most diligent when including the information contained herein, taking into account that several and different factors may affect the processing, application or use of the products, the convertor shall be responsible in every case for the conditions under which the products are transformed as well as for the final use given to them. REPSOL QUIMICA warns that this information may undergo variations or improvements; therefore REPSOL QUIMICA is not obliged to reflect these in this document or to communicate them to whomever may have access to it. Moreover, these readers should be aware that some or all of the products might be protected by intellectual property rights.



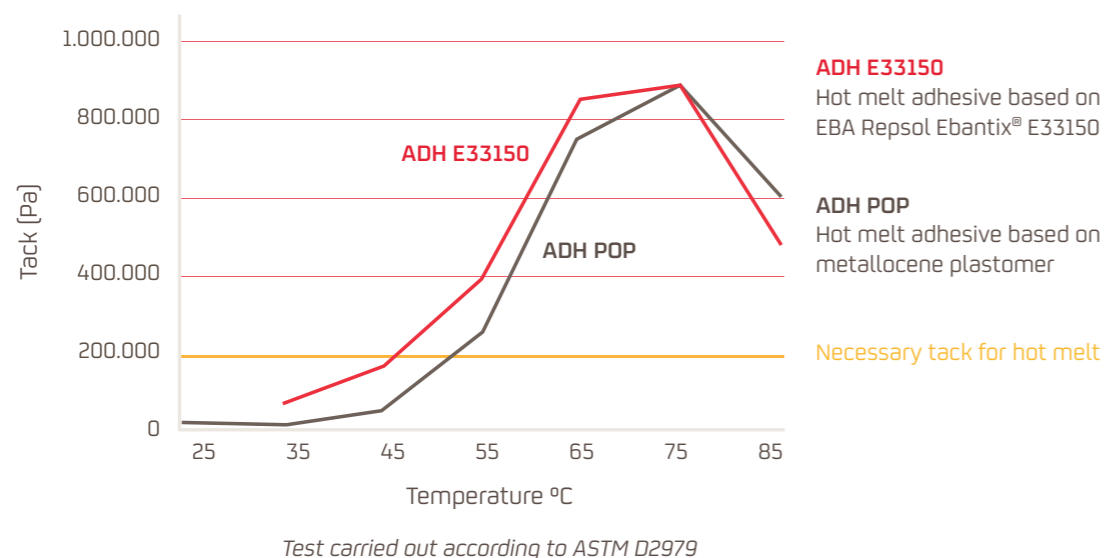


## Widest range of service temperatures

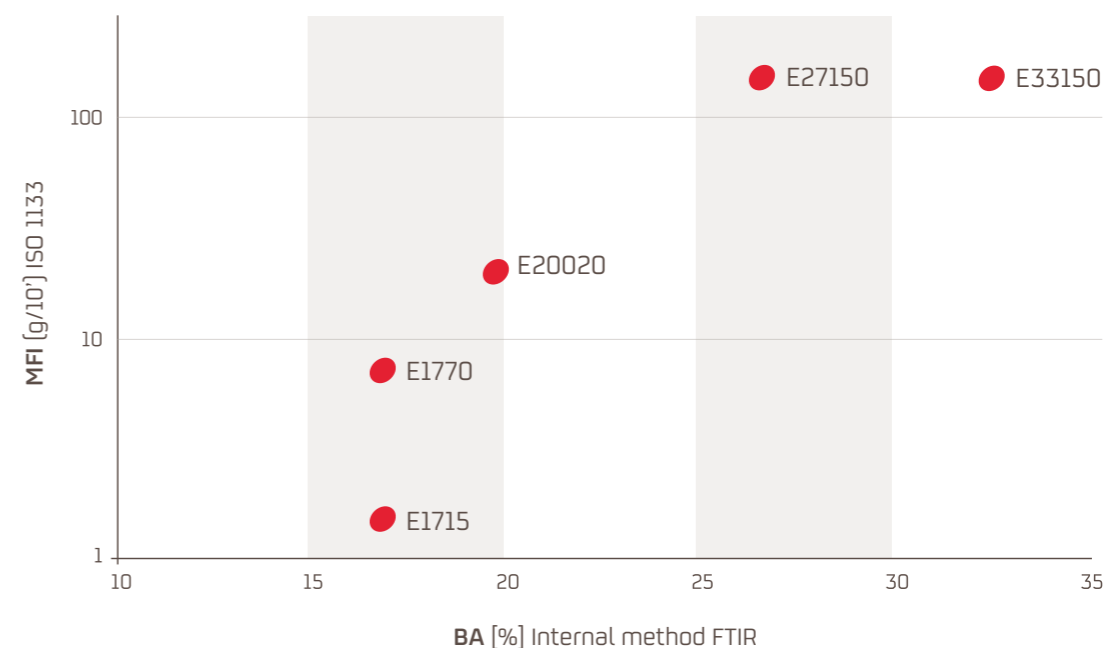
Adhesives formulated with the new Repsol Ebantix<sup>®</sup> grade E33150 show the widest range of service temperatures, with an especial good performance at low temperatures.

## Very high thermal stability

All the Repsol Ebantix<sup>®</sup> products for hot melts have outstanding thermal stability, reducing colouration of the adhesive and maintenance time.



## Repsol Ebantix<sup>®</sup> portfolio for hot melt adhesives



The information contained herein is based on REPSOL QUIMICA's current knowledge and experience and is presented in good faith for guidance only. Although REPSOL QUIMICA declares to have been most diligent when including the information contained herein, taking into account that several and different factors may affect the processing, application or use of the products, the convertor shall be responsible in every case for the conditions under which the products are transformed as well as for the final use given to them. REPSOL QUIMICA warns that this information may undergo variations or improvements; therefore REPSOL QUIMICA is not obliged to reflect these in this document or to communicate them to whomever may have access to it. Moreover, these readers should be aware that some or all of the products might be protected by intellectual property rights.

## Repsol Primeva® & Repsol Ebantix® food contact leadership

Repsol has the commitment and willingness to offer the safest products for food contact. For this purpose Repsol Primeva® grades for hot melts are steadily being improved to ensure their compliance with the most demanding regulations through:

The use of new additives approved for food contact

The substitution of additives with Specific Migration Limits or included in the list of SVHC

The reduction of residual VA content beyond European legislation



## Chemicals Customer Care

### SPAIN

Tel.: 900 10 32 39  
Tel.: +34 91 753 18 01

### PORTUGAL

Tel.: 800 60 501 111  
Tel.: +34 91 753 18 05

### FRANCE

Tel.: 800 60 503 333  
Tel.: +34 91 753 18 02

### ITALY

Tel.: 800 60 509 999  
Tel.: +34 91 753 18 04

### GERMANY

Tel.: 800 60 504 444  
Tel.: +34 91 753 18 00

### UNITED KINGDOM

Tel.: 800 60 502 222  
Tel.: +34 91 753 18 03

[sacrq@repsol.com](mailto:sacrq@repsol.com)  
[www.repsol.com](http://www.repsol.com)



## Corporate Headquarters

Méndez Álvaro, 44  
28045 Madrid. Spain  
Tel.: +34 91 753 81 00  
[www.repsol.com](http://www.repsol.com)

## Technical Service & Development Repsol Technology Centre

Ctra. de Extremadura A5, km 18  
28931 Móstoles, Madrid. Spain  
Tel.: +34 91 753 86 00  
[atd\\_poliiolefinas@repsol.com](mailto:atd_poliiolefinas@repsol.com)



*Transparency*  
*Flexibility* *Integrity*  
*Innovation* *Responsibility*