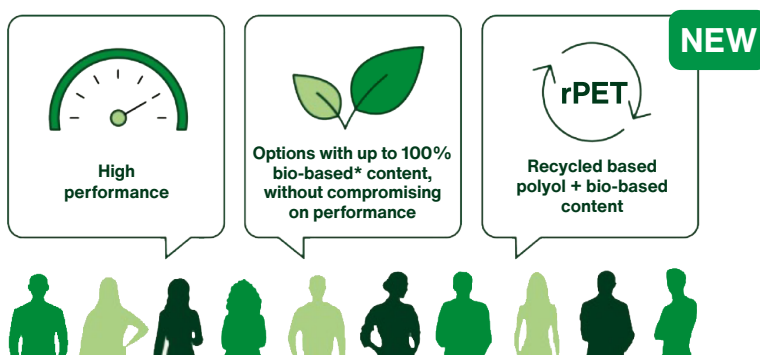


## Recycled PET-based polyols for CASE applications

As the industry increasingly embraces sustainable raw materials, the demand for recycled content is on the rise. Cargill™ has revamped its polyol offerings, introducing the innovative Priplast™ RE product range for polyurethane applications. This technology stands out by combining PET recycled materials with Cargill's decade-long expertise in bio-based solutions, enabling high performance for use in the CASE industry.

### Priplast™ polyols customer driven evolution



### Main benefits



#### Versatile

- Options containing 100% recycled content and combinations of recycled content with bio-based ingredients
- Drop in replacement with any 1000 or 2000Mw polyol in PU system



#### Enhanced durability

- Liquid polyol with semi-crystalline structure properties



#### Reliable sourcing

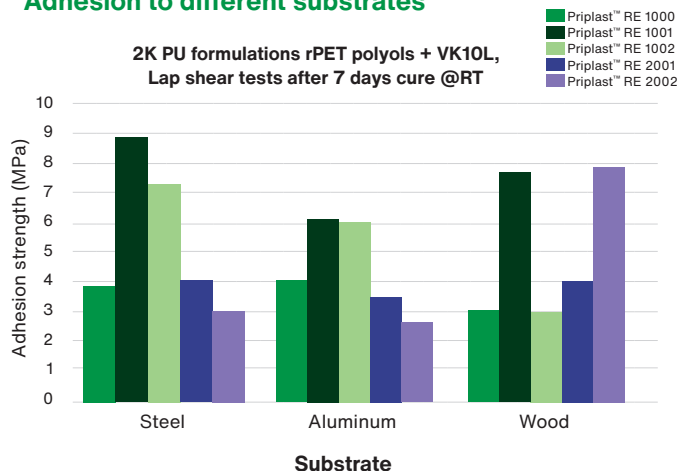
- Post-industrial rPET to avoid contamination

# Versatile product range to meet market needs

Commercial code	DEV code	Mol. weight (g/mol)	Recycled/bio-based content* (%)	OH value (mg KOH/g)	Dynamic viscosity @ 25°C (mPa.s)	Composition
Priplast™ RE 1000	DEV3310	1000	100/0	100	12,000	Recycled PET
Priplast™ RE 1001	DEV3311	1000	70/30	110	26,000	Recycled PET + long chain fatty diacid
Priplast™ RE 1002	DEV3314	1000	85/15	110	18,000	Recycled PET + aliphatic short chain diacid
Priplast™ RE 2001	DEV3313	2000	60/40	56	80,000	Recycled PET + long chain fatty diacid
Priplast™ RE 2002	DEV3312	2000	75/25	56	77,000	Recycled PET + aliphatic short chain diacid

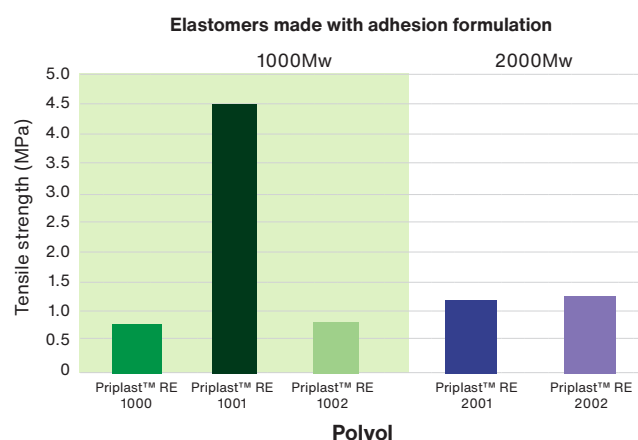
\*Recycled content is the amount of rPET used, while the other portion is the % of bio-based raw materials. Bio-based content is calculated based on raw material charges. Our new product range has just been released. We can provide samples with DEV codes for your evaluations. Our new product range has just been released. We can provide samples with DEV codes for your evaluations

## Adhesion to different substrates



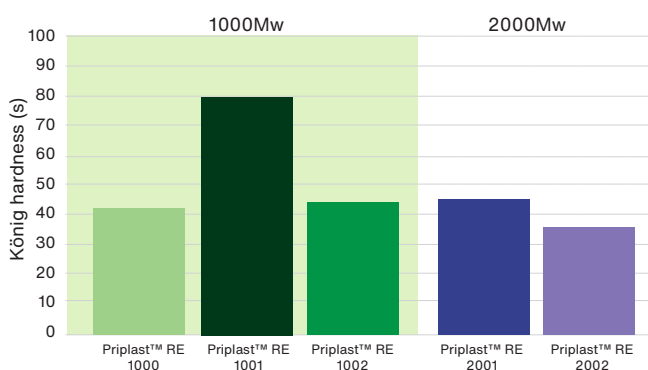
Priplast™ RE 1000 delivers very good adhesive performance on both aluminum and steel, comparable range to our Priplast™ polyols. Even superior results are achieved with Priplast™ RE 1002 and particularly with Priplast™ RE 1001, both with a molecular weight of 1000. (The ratio isocyanate:polyol is 1,1:1).

## Physical properties



The formulation with Priplast™ RE 1000 exhibits very low tensile strength (0.73 MPa) and high elongation (465%). However, tensile strength is significantly enhanced with Priplast™ RE 1001, achieving a tensile strength of 4.52 MPa and an elongation of 170%, resulting in a strong yet still elastic material.

## Hardness with PUD coatings



The highest hardness is achieved with Priplast™ RE 1001, reaching 81 Shore.

Method: PUD coatings, 150µm wet (=55µm dry), König hardness is measured after 7 days RT.

## Chemical resistance on 2K PU coatings

Polyol	Acetone (10s)	EtAc (10s)	Ammonia 10% (2min)	EtOH 50% (1h)	Acetic acid 10% (1h)	NaOH 10% (1h)	NaCl 5% (5h)	Water (16h)
Priplast™ RE 1000	0	0	0	0	0	0	0	0
Priplast™ RE 1001	0	2→0	0	0	0	0	0	0
Priplast™ RE 1002	0	0	0	0	0	0	0	0
Priplast™ RE 2001	0	2→0	0	0	0	0	0	0
Priplast™ RE 2002	2	0	0	2→0	0	0	0	2→0

### Priplast™ RE range shows good chemical resistance

Method: 1 week curing at room temperature, on glass, 100µm coating  
0 = good, 5 = bad  
2→0 means: initially there is a mark, this disappears in time

For further information or guidance please visit us at [cargill.com/coatings](https://cargill.com/coatings)

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