Advanced Polymer Solutions

Combined effects for advanced polymer solutions

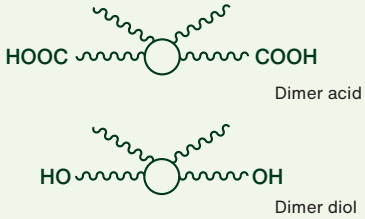
Cargill™

Cargill stands at the forefront of the global market in bio-based building blocks, polyols, and functional ingredients. Our cutting-edge expertise in dimer and derivates technology distinguishes our products, combining multiple effects to deliver durable, tailored, and bio-based solutions across diverse polymer types and CASE applications. Discover the grade that matches your specific needs.

Pripol™ Dimer Acids and Diols

Features include:

- **100% bio-based***
- **Flexibility**
- **Flowability & good wetting**
- **Low modulus**
- **Low shrinkage**
- **Hydrophobicity**
- **Hydrolysis resistance and chemical resistance**
- **Good adhesion to a wide range of substrates, including low-polarity plastics**
- **Low di-electric constant**
- **Thermo-oxidative stability**
- **Water repellency**



Product	Chemical description (dimer content %)	Dynamic viscosity mPa.s at 25°C	Effects/benefits	Bio-based content* (%)	Suggested use
Dimer fatty acids					
Pripol™ 1017	Dimer acid (78%)	8000	Standard dimer for general purpose	100	Dicarboxylic acids for use as monomers in polyamides, polyesters and epoxy modifications
Pripol™ 1022 VEG**	Dimer acid (77%)	5800	Low viscous standard dimer	100	
Pripol™ 1025	Hydrogenated dimer acid (78%)	8900	Standard dimer with good color	100	
Pripol™ 1012	Distilled dimer acid (98%)	6400	Higher purity dimer for higher MW polymers	100	
Pripol™ 1013	Distilled dimer acid (97%)	7100	High purity dimer content	100	
Pripol™ 1006	Hydrogenated, distilled dimer acid (97%)	7750	High purity, good and stable color	100	
Pripol™ 1009	Hydrogenated, distilled dimer acid (99%)	7500	Very high purity, excellent and stable color	100	
Pripol™ 1010 VEG**	Hydrogenated, distilled dimer acid (97%)	5000	Excellent and stable color with lower viscosity	100	
Pripol™ 2043	Hydrogenated dimer diol (81%)	2750	Higher functional dimer diol	100	2K PU coatings/adhesives, polyester polyol, UV oligomers, PUD
Pripol™ 2033	Hydrogenated, distilled dimer diol (98%)	2500	High purity dimer diol	100	
Pripol™ 2030	Distillated, hydrogenated dimer diol (96%)	2500	High UV stable dimer diol	100	
Trimer fatty acid					
Pripol™ 1040	Trimer acid (78%)	45000	High functional acid	100	Polyamide (epoxy hardener)

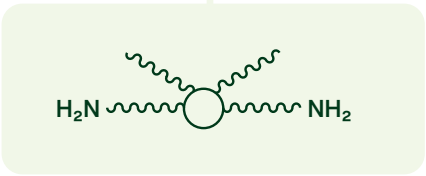
**Vegetable based dimer acids traditionally made from animal sources, now converted to vegetable sources, like all other dimer acids.

*Bio-based content calculated according to ASTM D6866

Priamine™ Dimer Diamines

Features include:

- **100% bio-based***
- **Low viscosity at room temperature**
- **Flexibility even at low temperature**
- **Chemical resistance**
- **Good adhesion to multiple substrates including plastics**
- **Low dielectric constants**

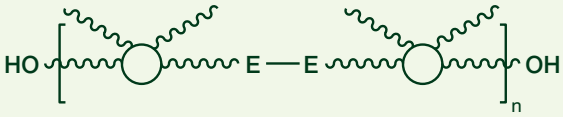


Product	Chemical description (diamine content %)	Dynamic viscosity mPa.s at 25°C	Effects/benefits	Bio-based content* (%)	Suggested use
Priamine™ 1071	Dimer diamine (75%)	250	Reduce brittleness, increase impact resistance	100	Curing agent for epoxy formulations
Priamine™ 1073	Dimer diamine (92%)	250	Good adhesion to substrates, reduce brittleness	100	Hardener for polyurea formulations
Priamine™ 1074	Dimer diamine (98%)	250	High flexibility and adhesion to plastics	100	Polyamide hotmelt
Priamine™ 1075	Dimer diamine (99%)	250	High purity diamine, high flexibility, color stability, low dielectric constant, improve flexibility in high Mw polymers	100	Polyimide (adhesives & films), polyamide (engineering polymer)

Priplast™ Dimer Based Polyester Polyols

Our Priplast™ grades offer a variety of benefits and deliver distinct effects for desired performance.

- **Low polarity substrates**
- **Thermo-oxidative and hydrolytic resistance**
- **Moisture barrier**
- **Flexibility**



Our diverse product portfolio includes both amorphous and semi-crystalline formats, with molecular weights ranging from 1000 to 3000.

Based on your formulation and bio-based content requirements, we usually recommend starting with grades that have a molecular weight of 2000.

Find the ideal grade to suit your specific requirements and choose between our 100% bio-based* options or our alternatives.

Amorphous (liquid)

Priplast™ 1837 1000Mw	Priplast™ 1838 2000Mw	Priplast™ 3196 3000Mw
Priplast™ 3237 NEW 1000Mw, 100% Bio-based*	Priplast™ 3238 2000Mw, 100% Bio-based*	Priplast™ 3239 NEW 3000Mw, 100% Bio-based*

Semi-crystalline (waxy)

Priplast™ 3162 1000Mw	Priplast™ 3192 2000Mw	Priplast™ 3172 3000Mw
Priplast™ 3291 NEW 1000Mw, 100% Bio-based*	Priplast™ 3294 2000Mw, 100% Bio-based*	Priplast™ 3295 NEW 3000Mw, 100% Bio-based*

*Bio-based content calculated according to ASTM D6866

	Product	Mw	Color	Functionality	Effects/benefits	Bio-based content* (%)	Suggested use
Polyester polyols							
Amorphous (liquid)	Priplast™ 1837	1000	Dark	2	Low viscous polyol, versatile	92	2K polyurethane coatings/ adhesives, moisture cure (PU hotmelt), polyurethane dispersion, UV oligomers
	Priplast™ 3237†	1000	Light	2	Low viscous, Mw 1000 version of Priplast™ 3238	100	
	Priplast™ F4	1000	Light	4	High functional polyol for high crosslinking density	59	2K polyurethane coatings/ adhesives, moisture cure (PU hotmelt), UV oligomers
	Priplast™ 3186	1700	Dark	2.2	High functional polyol for high crosslinking density	86	Foam, PU sealant
	Priplast™ 1838	2000	Light	2	Standard liquid for general purpose	82	2K polyurethane coatings/adhesives, moisture cure (PU hotmelt), polyurethane dispersion, UV oligomers
	Priplast™ 3238	2000	Light	2	100% bio-based* version of Priplast™ 1838	100	
	Priplast™ 3190	2000	Light	2	Good compatibility with different types of polyols	41	
	Priplast™ 1900	2000	Dark	2	High elongation	48	
	Priplast™ 3199	2000	Light	2	High purity polyol	87	Block copolyester and polyamides and soft segment for various high Mw polymers
	Priplast™ 3197	2000	Light	2	Extremely low polarity polyol	100	Electronic materials requiring excellent water resistance and aging performance
	Priplast™ 3187	2000	Dark	2	Standard liquid polyol for less color sensitive applications	84	PU sealant
	Priplast™ 3196	3000	Light	2	Higher Mw version of Priplast™ 1838	83	2K polyurethane coatings/adhesives, moisture cure (PU hotmelt), polyurethane dispersion, UV oligomers
	Priplast™ 3239†	3000	Light	2	100% bio-based* version of Priplast™ 3196	100	
Semi-crystalline (waxy)	Priplast™ 3162	1000	Light	2	Lower Mw version of Priplast™ 3192	36	Moisture cure (PU hotmelt), polyurethane dispersion
	Priplast™ 3291†	1000	Light	2	100% bio-based* version of Priplast™ 3162	100	
	Priplast™ 3192	2000	Light	2	Standard semi-crystalline polyol	39	
	Priplast™ 3294	2000	Light	2	100% bio-based* version of Priplast™ 3192	100	
	Priplast™ XL 101	2000	Light	2	High strength balanced with high flexibility and elongation	18	
	Priplast™ 3172	3000	Light	2	Higher Mw version of Priplast™ 3192	39	
	Priplast™ 3295†	3000	Light	2	100% bio-based* version of Priplast™ 3172	100	

†These products have just been released. We can provide samples with DEV codes for your evaluation.
Priplast™ 3237 (DEV2258), Priplast™ 3239 (DEV2259), Priplast™ 3291 (DEV2256), and Priplast™ 3295 (DEV2257).

*Bio-based content calculated according to ASTM D6866

B-Tough™ Epoxy Toughening Agents

With our B-Tough™ grades, you get a spectrum of benefits along with unique effects for outstanding performance. Explore the perfect grade for your needs. Reactive toughening agent for liquid and solid epoxy resins:

- **Excellent impact strength**
- **Combination of flexibility and hardness**
- **Enhanced adhesion strength onto versatile substrates**

Product	Chemical description	Dynamic viscosity mPa.s	Effects/benefits	Bio-based content* (%)	Suggested use
Toughening agents					
B-Tough™ C2r	Epoxy functional toughening agent low VOC	14000 at 25°C	100% reactive, low viscosity, good chemical resistance	21	Epoxy coatings
B-Tough™ A1	Epoxy functional toughening additive	4000 at 75°C	For liquid epoxy resin formulations (lowest polarity grade), low moisture diffusion	29	Epoxy adhesives and composites
B-Tough™ A2	Epoxy functional toughening additive	4000 at 75°C	For liquid/solid epoxy resin formulations (low polarity grade), low moisture diffusion	18	
B-Tough™ A3	Epoxy functional toughening additive	4000 at 75°C	For solid epoxy resin formulations (medium polarity grade), low moisture diffusion	15	

Other Technologies

Product	Chemical description	Effects/benefits	Bio-based content* (%)	Suggested use
Azelaic and isostearic acid				
Priacid™ A95	Azelaic acid (95%)	High purity for enhanced mechanical properties, elongation and strength. Provides moisture protection, good hydrolytic stability and light color, reduced water uptake, 100% bio-based*	100	Polyamide, polyester polyol, polyester
Prisorine™ 3501	Isostearic acid	Excellent color and thermo-oxidative stability for automotive and industrial coatings	100	Short oil alkyds, reactive polyamides, epoxy modification

*Bio-based content calculated according to ASTM D6866

Look for this symbol

which identifies USDA
Certified Biobased Products

Certification

Select products from our product range come with ISCC PLUS and USDA BioPreferred certification, detailed information available upon request.

Product Statements

Food contact: Our portfolio contains products that are listed in Commission Regulation (EU), FDA (US) and in Swiss Ordinance for coatings and adhesives applications. Food contact statements are available upon request with specific details, including conditions of use and restrictions.

Product carbon footprint: Information available upon request.

Contact us

For additional information on our products, please scan the QR code with your smartphone or tablet to visit our website.