Foreverest®

TERPENE & MODIFIED TERPENE POLYMERS

Product List V2301

TERPENE &
MODIFIED TERPENE POLYMERS

Polyterpene (also called Terpene Polymer or Terpene Resin) is produced using only the renewable material mixed Terpene or Terpene monomers. It is known as a tackifying resin, which is highly compatible with various polymer materials such as polyolefins, SIS, natural rubber or styrene elastomer. They are based especially on the combination of solubility, light color, stability, and chemical inertness, excellent tackiness as well as their lack of toxicity.

Foreverest® Polyterpene Resins have full series, from low to high softening point. Polyterpene Resin, Aromatic Modified Polyterpene Resin, and Polyterpene Phenolic Resin, which display excellent compatibility with high polarity polymer materials such as acryl by copolymerization with petroleum-based components. Hydrogenated Polyterpene Resins, which are hydrogenated grades of various Polyterpene Resins and Aromatic Modified Polyterpene Resins, with their excellent color hues, thermal stability, and weather resistance are highly regarded in many industries as biobased tackifiers for their adhesive components and as modifying agents for various polymers.

BENEFITS OF MODIFIED TERPENE POLYMERS

- ✓ **Bio-renewable**: Compared with other hydrogenated tackifying resins groups (hydrogenated rosin resins and hydrogenated hydrocarbon resins), Hydrogenated terpene resins possess the highest amount of bio-renewable content.
- ✓ **Excellent transparency, water-white and odorless**
- ✓ **High thermal stability and low-temperature resistance**: They are very stable in different weathers and operation temperature, not easy to aging or brittling
- ✓ **Compatible with a wide range of elastomers and polymers**: SIS, SBS, SEPS, SEBS, EVA, urethanes, acrylics, polybutadiene, polyisoprene, Metallocene polyethylene, cycloolefin and etc.
- ✓ **Strong adhesion to surfaces like**: Rubbers, plastics, metals, glass, coatings, woods and etc.
- ✓ **Quick-drying**: high hardness, strong cohesion, long opening time.
- ✓ **Wettability, flow, moldability and leveling properties**: uniform diffusion, short-curing time
- ✓ **Aging resistance**, UV resistance
- ✓ Others: insulating, thermal conductivity, good water-resistance and optical properties

BUYER GUIDE

Type No.	Alternative Product	Product Name	Biobased Raw Material	Specification	Packaging	Application Markets
T80	YS RESIN PX800 (Yasuhara)	Terpene Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner, 50% toluene): 5 max Soften Point, (R&B): 75-85 ℃ Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks, Rubber Aid
T85		Terpene Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner, 50% toluene): 5 max Soften Point, (R&B): 80-90 ℃ Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks, Rubber Aid
T100	YS RESIN PX100 (Yasuhara	Terpene Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner, 50% toluene): 5 max Soften Point, (R&B): 95-105℃ Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks, Rubber Aid
T105		Terpene Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner, 50% toluene): 5 max Soften Point, (R&B): 100-110 ℃ Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks, Rubber Aid
T115	YS RESIN PX1150 (Yasuhara); SYLVARES™ TR 7115(Kraton);	Terpene Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner, 50% toluene): 5 max Soften Point, (R&B): 110-120 ℃ Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks, Rubber Aid

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Type No.	Alternative Product	Product Name	Biobased Raw Material	Specification	Packaging	Application Markets
T115F	Piccolyte® F115(DRT)	Terpene Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner, 50% toluene): 5 max Soften Point, (R&B): 110-120 ℃ Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 5.0 max Saponification Value, mgKOH/g: 5 max As content, mg/kg: 3 max Pb content, mg/kg: 3 max Hg content, mg/kg: 1 max Cd content, mg/kg: 1 max Residual Solvent, mg/kg: 100 max	25KG PE BAG NET EACH	Food & Feed Additives, Hygienic material
T125	YS RESIN PX1250（Yasuhara）; SYLVARES™ TR 7125(Kraton);	Terpene Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner, 50% toluene): 5 max Soften Point, (R&B): 120-130 ℃ Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 5.0 max	25KG PE BAG NET EACH	Food & Feed Additives, Hygienic material Adhesive & Sealants
T135		Terpene Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner, 50% toluene): 5 max Soften Point, (R&B): 130-140 ℃ Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks, Rubber Aid
A115	DERCOLYTE® A115/PICCOLYTE® A115(DRT)	Terpene Resin	α-Pinene	Appearance: Yellow solid Color, (Gardner, 50% toluene): 6 max Soften Point, (R&B): 112-118 ℃ Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants
A120		Terpene Resin	α-Pinene	Appearance: Yellow solid Color, (Gardner, 50% toluene): 6 max Soften Point, (R&B): 117-123 ℃ Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks, Rubber Aid
A125	DERCOLYTE® A125/PICCOLYTE® A125(DRT)	Terpene Resin	α-Pinene	Appearance: Yellow solid Color, (Gardner, 50% toluene): 6 max Soften Point, (R&B): 122-128 ℃ Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants

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Type No.	Alternative Product	Product Name	Biobased Raw Material	Specification	Packaging	Application Markets
B115	DERCOLYTE® S125/PICCOLYTE® S125(DRT); SYLVARES™ 3125(Kraton);	Terpene Resin	β-Pinene	Appearance: Yellow solid Color, (Gardner, 50% toluene): 3 max Soften Point, (R&B): 110-120 ℃ Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Rubber Aid
3C95		Terpene Resin	3-Carene	Appearance: Yellow solid Color, (Gardner, 50% toluene): 5 max Soften Point, (R&B): 93-98 ℃ Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks, Rubber Aid
C30	YS RESIN CP (Yasuhara)	Terpene Resin	Camphene	Appearance: Viscosity liquid Color, (Gardner, 50% toluene)： 7 max Viscosity, @35°C: 20000-30000 Acid Value, mgKOH/g: 1.0 max	GALVANIZED IRON DRUM OF 200KG NET EACH	Adhesives & Sealants, Inks, Rubber Aid
TP80	YS POLYSTER T80(Yasuhara)	Terpene Phenolic Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner): 7 max Softening Point: 75-85°C Hydroxyl value, mgKOH/g : 40 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants
TP95	DERTOPHENE® T(DRT)： SYLVARES™ TP 96/SYLVARES™ 1095(Kraton)	Terpene Phenolic Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner): 7 max Softening Point: 92-98°C Hydroxyl value, mgKOH/g : 40 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants
TP100	DERTOPHENE® 105(DRT); YS POLYSTER T100(Yasuhara)	Terpene Phenolic Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner): 7-9 Softening Point: 95-105°C Saponification Value, mgKOH/g: 2.0 max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants

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Type No.	Alternative Product	Product Name	Biobased Raw Material	Specification	Packaging	Application Markets
TP110	SYLVARES™ TP 300/1105(Kraton)	Terpene Phenolic Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner): 8 max Softening Point: 105-115°C Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants
TP115	DERTOPHENE® 115(DRT); YS POLYSTER T115(Yasuhara); SYLVARES™ TP 2040/1115(Kraton)	Terpene Phenolic Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner): 8 max Softening Point: 110-120°C Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants
TP120	SYLVARES™ TP 2019(Kraton)	Terpene Phenolic Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner): 7 max Softening Point: 115-125°C Acid Value, mgKOH/g: 1.0 max Toluene Insoluble: 0.05% max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants
TP130	YS POLYSTER T130(Yasuhara)	Terpene Phenolic Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner): 7 max Softening Point: 125-135°C Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants
TP140		Terpene Phenolic Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner): 7 max Softening Point: 135-145°C Acid Value, mgKOH/g: 1.0 max Toluene Insoluble: 0.05% max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks & Paints & Coating, Rubber & Tire Aid
TP145	YS POLYSTER T145(Yasuhara); SYLVARES™ TP 7042/1150(Kraton)	Terpene Phenolic Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner): 7 max Softening Point: 140-150°C Acid Value, mgKOH/g: 1.0 max Toluene Insoluble: 0.05% max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks & Paints & Coating, Rubber & Tire Aid

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Type No.	Alternative Product	Product Name	Biobased Raw Material	Specification	Packaging	Application Markets
TP160	SYLVARES™ 1160(Kraton)	Terpene Phenolic Resin	Turpentine oil	Appearance: Yellow solid Color, (Gardner): 7 max Softening Point: 155-165°C Toluene Insoluble: 0.05% max Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks & Paints & Coating, Rubber & Tire Aid
CPR15		Terpene Phenolic Resin	Camphene	Appearance: Yellow or deep yellow viscosity liquid Acid Value, mgKOH/g: 50-100 Color, Fe-Co scale: 7 max Viscosity, mPa.s/25℃: 900-1000 Toluene Insoluble, %: 0.05 max Softening Point: 10-25°C (reference index)	200KG IRON DRUM NET EACH	Adhesives & Sealants, Inks & Paints & Coating
TP100E		Terpene Phenolic Resin	Turpentine oil	Brookfield Liquid Viscosity, @20°C, 50 min-1,mPa.s: 800-1200 Solid Content: 50% min PH Value, @20°C: 8-9 Softening Point: 95-105°C Particle Size, (nm): 180 max	PLASTIC DRUM OF 200KG NET EACH IBC DRUM OF 1000KG NET EACH	Adhesives & Sealants, Inks & Paints & Coating, Rubber & Tire Aid
TP120E		Terpene Phenolic Resin Emulsion	Turpentine oil	Liquid Viscosity, Brookfield 2#@25°C, mPa.s: 250 max Solid Content, %: 53-55 PH Value, @25°C: 6.5-8.5 Particle Size, (AVG, μm): 0.2-1.0 Softening Point: 115-125°C	PLASTIC DRUM OF 200KG NET EACH IBC DRUM OF 1000KG NET EACH	Adhesives & Sealants, Inks & Paints & Coating, Rubber & Tire Aid
TS85	YS RESIN TO85 (Yasuhara)	Styrenated Terpene Resin	Turpentine oil	Acid Value, mgKOH/g: 1 max Color, Gardner: 3 max Saponification Value, mgKOH/g: 2.0 max Softening Point, R&B: 80-90°C Iodine Value: 40-70g/100g Toluene Insoluble: 0.05% max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Paints & Coating, Rubber Aid

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Type No.	Alternative Product	Product Name	Biobased Raw Material	Specification	Packaging	Application Markets
TS90		Styrenated Terpene Resin	Turpentine oil	Acid Value, mgKOH/g: 1 max Color, Gardner: 3 max Saponification Value, mgKOH/g: 2.0 max Softening Point, R&B: 85-95°C Iodine Value: 40-70g/100g Toluene Insoluble: 0.05% max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks & Paints & Coating, Rubber & Tire Aid
TS95	SYLVARES™ 6100(Kraton)	Styrenated Terpene Resin	Turpentine oil	Acid Value, mgKOH/g: 1 max Color, Gardner: 3 max Saponification Value, mgKOH/g: 2.0 max Softening Point, R&B: 90-100°C Iodine Value: 40-70g/100g Toluene Insoluble: 0.05% max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks & Paints & Coating, Rubber & Tire Aid
TS100	DERCOLYTE® S105(DRT); YS RESIN TO105 (Yasuhara)	Styrenated Terpene Resin	Turpentine oil	Acid Value, mgKOH/g: 1 max Color, Gardner: 3 max Saponification Value, mgKOH/g: 2.0 max Softening Point, R&B: 95-105°C Iodine Value: 40-70g/100g Toluene Insoluble: 0.05% max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks & Paints & Coating
TS115	YS RESIN TO115 (Yasuhara)	Styrenated Terpene Resin	Turpentine oil	Acid Value, mgKOH/g: 1 max Color, Gardner: 3 max Saponification Value, mgKOH/g: 2.0 max Softening Point, R&B: 110-120°C Iodine Value: 40-70g/100g Toluene Insoluble: 0.05% max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Inks & Paints & Coating, Rubber & Tire Aid
HT95		Hydrogenated Terpene Polymer	Turpentine oil	Color, Hazen: 100max Softening Point, °C: 90-100 Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Plasticizer & Plastics Additives
HT105		Hydrogenated Terpene Polymer	Turpentine oil	Color, Hazen: 100max Softening Point, °C: 100-110 Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Plasticizer & Plastics Additives

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Type No.	Alternative Product	Product Name	Biobased Raw Material	Specification	Packaging	Application Markets
HT115	CLEARON P115 (Yasuhara)	Hydrogenated Terpene Polymer	Turpentine oil	Color, Hazen: 100max Softening Point, °C: 110-120 Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Plasticizer & Plastics Additives
HT125	CLEARON P125 (Yasuhara)	Hydrogenated Terpene Polymer	Turpentine oil	Color, Hazen: 100max Softening Point, °C: 120-130 Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Plasticizer & Plastics Additives
HT140	CLEARON P135 (Yasuhara)	Hydrogenated Terpene Polymer	Turpentine oil	Color, Hazen: 100max Softening Point, °C: 135-145 Acid Value, mgKOH/g: 1.0 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Plasticizer & Plastics Additives
HTP115	YS POLYSTER UH115(Yasuhara)	Hydrogenated Terpene Phenolic Resin	Turpentine oil	Appearance: white, transparent, solid like ice Color, Gardner: 1 max Softening Point, DEG, °C: 100-120 Acid Value, mg KOH/g: 1 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Coating & Painting, Electronic Chem, Hygiene Chemicals, Inks, Solder
HTP125		Hydrogenated Terpene Phenolic Resin	Turpentine oil	Appearance: white, transparent, solid like ice Color, Gardner: 1 max Softening Point, DEG, °C: 120-130 Acid Value, mg KOH/g: 1 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Coating & Painting, Electronic Chem, Hygiene Chemicals, Inks, Solder
HTP130		Hydrogenated Terpene Phenolic Resin	Turpentine oil	Appearance: white, transparent, solid like ice Color, Gardner: 1 max Softening Point, DEG, °C: 125-135 Acid Value, mg KOH/g: 1 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Coating & Painting, Electronic Chem, Hygiene Chemicals, Inks, Solder
HTP135		Hydrogenated Terpene Phenolic Resin	Turpentine oil	Appearance: white, transparent, solid like ice Color, Gardner: 1 max Softening Point, DEG, °C: 130-140 Acid Value, mg KOH/g: 1 max	25KG COMPLEX PAPER BAG NET EACH	Adhesives & Sealants, Coating & Painting, Electronic Chem, Hygiene Chemicals, Inks, Solder

BUYER GUIDE

Type No.	Alternative Product	Product Name	Biobased Raw Material	Specification	Packaging	Application Markets
T25	DERCOLYTE® LTG(DRT); SYLVARES™ TR A25L(Kraton);	Terpene Polymer	Turpentine Oil & Dipentene	Appearance: Viscous yellow brown liquid, terpene odor Color, (Gardner, 50% toluene): 7 max Acid Value, mgKOH/g: 1.0 max Viscosity, @35℃, mPa.s: 30000-40000	GALVANIZED IRON DRUM OF 200KG NET EACH	Adhesives & Sealants, Coating & Painting, Electronic Chem, Hygiene Chemicals, Inks, Solder
T50		Terpene Polymer	Turpentine Oil & Dipentene	Appearance: Viscous yellow brown liquid, terpene odor Color, (Gardner, 50% toluene): 7 max Acid Value, mgKOH/g: 1.0 max Viscosity, @35℃, mPa.s: 50000-110000	GALVANIZED IRON DRUM OF 200KG NET EACH	Adhesives & Sealants, Coating & Painting
MT1055		Modified Terpene Resin	Turpentine & Others	Appearance: Yellow solid Color (Gardner, 50% toluene): 5 max Soften Point, (R&B), ℃: 100-110 Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 1.0 max Iodine value, g, I/100g: 70 max OH Value, mgKOH/g: 8-30	25KG COMPLEX PAPER BAG NET EACH	Suitable for polar and non-polar substrates, widely used in corrugated paper, pressure sensitive glue, universal glue, hot melt glue, shoe glue, packaging glue, aluminum foil glue and blue film tape, etc. Specialized for bonding interface and protective sleeve of gas or oil pipeline.
MT1255		Modified Terpene Resin	Turpentine & Others	Appearance: Yellow solid Color (Gardner, 50% toluene): 5 max Soften Point, (R&B), ℃: 120-130 Insoluble matter in toluene, %: 0.05 max Acid Value, mgKOH/g: 1.0 max Iodine value, g, I/100g: 70 max OH Value, mgKOH/g: 8-30	25KG COMPLEX PAPER BAG NET EACH	Suitable for plasticizer rich base materials, widely used in PVC electrical tape, paper, pressure sensitive adhesive, universal adhesive, hot melt adhesive, shoe adhesive, packaging adhesive, aluminum foil adhesive and blue film tape.

More Details...

- Products List
  - Rosin Derivatives
  - Polyterpene Resins
- Solution Center
  - Tackifier Center
  - Electronic Industry

Foreverest Resources Ltd. is a family-owned company, which specializes in pine chemicals and provides reliable and comprehensive solutions for pre-sale & after-sale services. With 30 years of history in R&D of forest chemicals products in China, we focus on supplying the substitutes of natural products. Our products include modified resins, terpene based derivatives, flavour & fragrance ingredients, and other biobased chemicals.

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THANK YOU

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