

Foreverest Resources Ltd

Terpene Resin

Terpene Resin is made of alpha-Pinene and beta-pinene through catalyzing polymerization. A kind of pale yellow transparent solid. Non-toxic, odorless, anti-radiation, anti-aging, anti-acid and base, anti-crystallization, electrical isolation, good compatibility with all kinds of synthetics, easily solved in organic solvent like toluene, turpentine but not solved in water, formyl, ethanol.

Substance Identification

Synonyms	POLYTERPENE RESIN CAS 9003-74-1
CAS	N/A
EINECS	N/A
FEMA	N/A

HS.CODE	N/A
Molecular Formula	(C10H16)n
Molecular Weight	0.95 to 1.0

Application & Uses

- Adhesives
 - The ideal choice for PSAs in medical, electronic and flexible packaging applications
 - Medical skin patches and wearable sensor devices
 - Removable adhesive bonding
 - Cold-chain labels and outdoor signage
- UV/EB Curing & AM
 - Applicable as a reactive diluent and tackifier in photo-curing (UV/EB) processes
 - Applicable in additive manufacturing processes
 - Formulation of high-strength materials for 3D printing
- Biodegradable Packaging
 - Compatibiliser or toughening phase, enhancing interfacial adhesion between bio-based polyesters (PLA, PBS) and natural fillers (lignin, cellulose)
 - Optimises phase morphology, improves impact toughness and processability, whilst preserving chemical recyclability and biodegradability
- Food Packaging
 - As tackifiers to enhance coating adhesion and providing antimicrobial protection and odour management

Sales Specification

ITEM	VALUE
Appearance	Yellow solid
Color, Gardner, 50% toluene	5 max
Softening Point, R&B, °C	90 to 125
Insoluble matter in toluene, %	0.05 max
Acid Value, mgKOH/g	1.0 max

Similar Specs

[Liquid Terpene Resin](#)

[Styrenated Terpene Resin](#)

[Terpene Phenolic Resin Emulsion](#)

[Hydrogenated Terpene Polymer](#)

Package

- Packing in 200kg iron drum
- Paper Carton, 25kg net each, 640 bags (16 mt) per 20'FCL

GHS Hazard Statements

No GHS data available

Storage

- Guard against dust accumulation of this material
- Keep containers closed when not in use
- Keep away from heat, sparks and open flame
- Store at ambient temperature and atmospheric pressure

Relation Products

- [Liquid Terpene Resin](#)

Relation Articles

- [\[Internal Sharing Session Memo\] Differences between Terpene Resins Synthesised from Different Pinene Monomers, Their Applications, and a Discussion on Resin Supply Chain Stability](#)
- [Food Industry Application of Terpene Resin](#)
- [How to choose tackifier resins for Non-woven adhesives](#)
- [Polyterpenes by ring opening metathesis polymerization of caryophyllene and humulene](#)
- [What is Terpene Resins?](#)

- [Choosing the Correct Soldering Flux Types and Their Advantages/Disadvantages](#)

Remark

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