

Emoltene™ 100 Pro 14 TOP

Going sustainable has never been easier

Product Description

Emoltene™ 100 Pro 14 TOP is a Pro-Environment C10 general-purpose plasticizer ready to be dropped in to existing formulations. The renewable material in Emoltene™ 100 Pro 14 TOP is produced with biogas and replaces fossil gas in accordance with the mass balance concept. Emoltene™ 100 Pro 14 TOP is third party certified according to the ISCC PLUS system. This means it has GHG calculation as well as traceability back to the country of origin, ensuring the biomass was sourced in a sustainable manner.

Emoltene™ 100 Pro 14 TOP is based on 14% renewable resources. To prevent degradation in compounds used at elevated temperatures, it is also stabilized with 0.12% 1,1,3-Tris(2-methyl-4-hydroxy-5-tert-butylphenyl)-butane.

Segment Applications

Flexible PVC such as; Wire & Cables and Roofing membranes.

Delivery Forms

Bulk (Iso-tanks), Flexitank, Railcars, Drums (220 kg) and IBC (970 kg).



Emoltene™ 100 Pro 14 TOP is your next generation C10 plasticizer for your production of sustainable, flexible PVC - designed to reduce your carbon footprint and with sustainable and traceable sourcing of renewable raw material.

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Sales Specification

| Characteristics | Unit | Specification | Analytical Method |
|--------------------|----------|---------------|-------------------|
| Ester content | % | Min. 99.0 | GC |
| Acid value | mg KOH/g | Max. 0.07 | ASTM D1613 |
| Water content | % | Max. 0.05 | ASTM E1064 |
| Color, Hazen | Hazen | Max. 25 | ASTM D1209 |
| Stabilizer content | % | 0.10-0.15 | GC |

General Characteristics

| Characteristics | Unit | Typical Value ¹ | Comment |
|--|-------------------|----------------------------|--------------|
| Clear colorless liquid | | | |
| Molecular weight | g/mol | 446.7 | |
| Density at 20°C | kg/m ³ | 960-965 | EN ISO 12185 |
| Viscosity at 20°C | mPas | 120-130 | ASTM D445 |
| Refractive index (n _D ²⁰) | | 1.482-1.484 | ISO 5661 |

1. Typical values are for information only and not part of sales specification

Pro-Environment Information

Renewable content is 14% based on mass balance concept.

Calculated GHG values:

Cradle to Gate: 2.226 kg CO₂ eq/kg Emoltene™ 100 Pro 14 TOP

Cradle to Grave: 4.591 kg CO₂ eq/kg Emoltene™ 100 Pro 14 TOP

Cradle to Grave is calculated as Cradle to Perstorp gate + end of life assuming all carbon is converted to CO₂.

ISCC PLUS certified product.

Handling and Storage

Perstorp recommends storing Emoltene™ 100 Pro 14 TOP in stainless steel, aluminum or carbon steel containers. Ensure adequate ventilation. Prevent electrostatic discharges. The maximum storage temperature has not been determined, but when stored as recommended, temperatures up to 50°C should present no problem. When stored as recommended, the minimum shelf life is three years.

CAS Nos.: 53306-54-0 and 1843-03-4

EC (EINECS) Nos.: 258-469-4 and 217-420-7

REACH registration Nos.: 01-2119446694-30 and 01-2119955265-33

HS no: 2917 33



Effective date: May 4, 2021

USERS ARE ADVISED TO MAKE THEIR OWN INDEPENDENT DETERMINATION OF THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE. EXCEPT FOR WHAT IS STATED IN PERSTORP'S GENERAL CONDITIONS OF SALE OR SEPARATELY IN A WRITTEN CONTRACT WITH PERSTORP, NO INFORMATION PROVIDED IN THIS DATA SHEET CONSTITUTES A WARRANTY (EXPRESS OR IMPLIED) BY PERSTORP, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.