

Emoltene™ 100 Pro 14 IRG

Going sustainable has never been easier

Product Description

Emoltene™ 100 Pro 14 IRG is a Pro-Environment C10 general-purpose plasticizer ready to be dropped in to existing formulations. The renewable material in Emoltene™ 100 Pro 14 IRG is produced with biogas and replaces fossil gas in accordance with the mass balance concept. Emoltene™ 100 Pro 14 IRG 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 IRG is based on 14% renewable resources. To prevent degradation in compounds used at elevated temperatures, it is also stabilized with 0.25% octadecyl-3,5-di-tertbutyl-4-hydroxy-hydrocinnamate.

Segment Applications

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

Delivery Forms

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



Emoltene™ 100 Pro 14 IRG 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	%	0.25-0.30	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: 2.168 kg CO₂ eq/kg Emoltene™ 100 Pro 14 IRG

Cradle to Grave: 4.533 kg CO₂ eq/kg Emoltene™ 100 Pro 14 IRG

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 IRG 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 2082-79-3

EC (EINECS) Nos.: 258-469-4 and 218-216-0

REACH registration Nos.: 01-2119446694-30 and 01-2119491195-33

HS no: 2917 33



Effective date: May 4, 2021

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