

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 and also ensures the biomass was sourced in a sustainable manner.

Emoltene™ 100 Pro 14 IRG is based on 14% renewable carbon content. To prevent degradation in compounds used at elevated temperatures, it is also stabilized with 0.25% octadecyl-3,5-di-tertbutyl-4-hydroxy-hydro-cinnamate.

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 sourcing of renewable raw material.

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Sales Specification

Characteristics	Unit	Specification	Analytical Method
Ester content	wt.%	Min. 99.0	GC
Acid value	mg KOH/g	Max. 0.07	ASTM D1613
Water content	wt.%	Max. 0.05	ASTM E1064
Color, Hazen	Hazen	Max. 25	ASTM D1209
Antioxidant content	wt.%	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)		1.482-1.486	ISO 5661

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

Pro-Environment Information

Renewable carbon content is 14% based on mass balance concept.

PCF* Including Biogenic CO₂ Uptake: 1.8 kg CO₂eq/kg product
Biogenic CO₂ Uptake: 0.4 kg CO₂/kg product

*Cradle-to-Gate value

All PCF values are calculated based on ISCC, Together for Sustainability, and GHG protocol methodology. The PCF value stated above is updated on a yearly basis, actual values may differ over the year and are stated in the sustainability declaration document. This product is ISCC PLUS certified.

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.

HS no: 2917 33
CAS Nos.: 53306-54-0 and 2082-79-3
EC (EINECS) Nos.: 258-469-4 and 218-216-0
REACH registration No.: 01-2119446694-30-0003
01-2119491195-33-XXXX



Effective date: March 20, 2024

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.