

Atmer™ I 440

General

Chemical description	Glycerol ester
Physical form	Paste
Origin	Non-vegetable
CAS	Confidential
EINECS	Listed

Applications

Atmer I 440 is recommended as an anti-fogging additive in polyolefin food wraps

Mode of action

Atmer I 440 can be dispersed evenly through the polymer in the melt phase. It migrates to the surface of the polymer where it helps to lower the surface tension and subsequently reduces water droplets allowed to condense on the plastic. The water droplets are then able to spread into a continuous, uniform layer on the fabricated film.

Features and benefits

- Improves transparency through packaging
- Improved durability of contents
- Improved presentation of food contents
- More appealing packaging content for consumers

Recommended polymers

- LDPE
- HDPE
- PP

Guidelines for use

Atmer I 440 can be incorporated into resin as supplied or via masterbatch / pre-blend. Experience has shown that simple manual mixing prior to processing will normally give an acceptable dispersion though, mechanical means are preferred. Typical addition levels are 0.5 – 4%

Specification

	Lower	Upper	Units
Acid value	0	2.5	mg KOH/g
Hydroxyl value	305	320	mg KOH/g
Lovibond I# yellow	0	2	
Lovibond I" red	0	0.3	
Moisture	0	0.1	%
Total monoglycerides	95	100	%
Diglycerides by GPC	0	5	%
Free glycerine	0	1	%

Physical form, packaging and storage

Atmer I440 is supplied as a liquid in 150kg drums – four to a pallet as standard
 Keep tightly closed in a dry, cool and well ventilated place in original packaging only
 Shelf life of 450 days

Health and safety data

Atmer I440 has low acute oral toxicity and is not expected to cause irritation to eyes or skin
 Material safety data sheets (MSDS) are available upon request

Inventory status

EU	Compliant	USA	Compliant
Canada	Compliant	Australia	Compliant
Japan	Compliant	China	Compliant
Korea	Compliant	Philippines	Compliant

Food contact statements are available upon request

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