



EDENOL® 2178 US

100 % Biobased Polymeric Plasticizer

Description

EDENOL® 2178 US is a polymeric plasticizer with low viscosity and 100 % based on renewable raw materials.

General Appearance

Slightly yellowish, liquid

Specified Data

Parameter	Value	Test Method
Acid value (mg KOH/g)	0 - 2.0	DIN EN ISO 2114
Refractive index (20 °C)	1.4575 - 1.4595	DIN 51423
Viscosity (mPa·s, 20 °C)	650 - 750	DIN 53019

Properties and Application

EDENOL® 2178 US is a polymeric plasticizer based to 100 % on renewable raw materials. It is perfectly suitable for the use in bioplastics such as PLA, PHA or blends thereof. EDENOL® 2178 US can be used in conventional processing steps, for example extrusion, injection molding or film blowing.

PLA or PLA/PHA blends are rather brittle materials. When EDENOL® 2178 US is used as a primary plasticizer in these polymer blends, it improves the handling properties such as the elasticity. In PLA, EDENOL® 2178 US provides a much better elasticity (elongation at break) compared with a polyadipate plasticizer with similar viscosity. In order to achieve a higher migration resistance, a combination with EDENOL® 2192 US is recommended.

EDENOL® 2178 US can also be used in PVC formulations as a plasticizer to increase the renewable content. To avoid exudation the dosage should not exceed 40 phr.

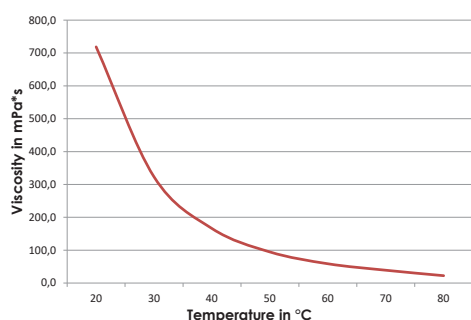


Recommended Dosage

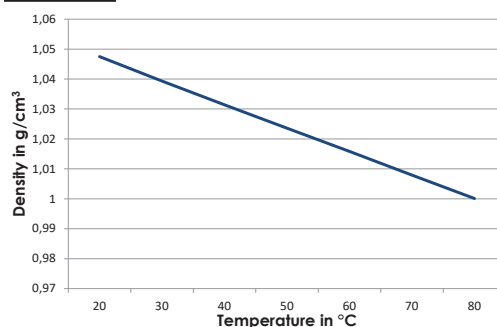
max. 25 % for Bioplastics
max. 40 phr for PVC

Additional Properties

Viscosity



Density



Health and Safety Information

Please review our Safety Data Sheet for best practices when using this material.

Packaging Sizes

IBC tote, liquid
Drum, liquid

Storage and Handling

It is recommended to store EDENOL® 2178 US at room temperature and to protect the product against the effects of heat and frost. Due to its pour point, the product may deposit and become solid at temperatures below -3 °C. This physical property is specific to the product and will be reversible when heated under mixing. It has no influence on the effectiveness or its application properties. If stored in sealed original packaging, EDENOL® 2178 US should be stable for at least 24 months from the date of manufacture.

For more information, contact your nearest regional office.

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