



Technical Data Sheet

June 2024

**Polyester of adipic acid with
Polyhydric alcohols**

ADILEN 270 Medium/high viscosity

Specifications	Value
Density 20 °C g/cm ³	1,115 – 1,130
Viscosity at 20 °C p	65-75
Acid value mg KOH/g	≤ 3
Boiling point °C	<300
Vapour pressure at 20°C	< 0,1
Gardner colour	≤ 2
Flash point °C	280
Hydroxyle value	≤ 30
Freezing point °C	≅ -9
Solubility in water	Insoluble
Appearance	Viscous liquid
Molecular weight	2.700
CAS number	73018-26-5
EINECS number	
CN code	2917120090

Description

Adilen 270 is a medium/high viscosity polymeric plasticizer, derivate of Adipic acid and Glycols onto PVC, rubbers industries and thermoplastic chlorides.

Adilen 270 is a polymeric plasticizer with high molecular weigh. It has the following properties like more important: resistance, no volatility, no migration and no extraction. **Adilen 270** improves a shelf of life in the final product.

Adilen 270 is very resistant to the flow oils, alcohols, fats, water, but it is not enough for aliphatic and aromatics hydrocarbons and dissolvent chlorides

Adilen 270 is a medium/high viscosity polymeric plasticizer. For this reason, **Adilen 270** can show some trouble in the handling, if the temperature falls a lot.

Adilen 270 can be blended with others monomeric primary plasticizers, to get the best value for money.

Adilen 270 is a polymeric plasticizer, but it needs to incorporate **Plasticizer E** (Epoxidized Soyabean oil), to stabilize to the sunlight and heat.

Adilen 270 provides very good resistance deformations by heat and enough flexibility to the low temperatures.

Adilen 270 is a nonreactive polymeric plasticizer in the vulcanization rubber processing.

Legislation

Concerning plastic materials intended to come into contact with food. **Adilen 270** fulfils Regulation 1282/201 with the European reference number 76807, with following FDA regulations: 175.105, 175.300, 177.1210, 177.1390 and 177.2420.

REACH

In accordance with Regulation 1907/2006 and conformity with Article 6, **Adilen 270** is exempt from registration because the percentage is less than 2% monomers.

Application

Adilen 270 is used in a lot of applications in the plastic transformer industries, due to its resistance to volatility, extraction, and migration. **Adilen 270** is very suitable in: Films for food wrap, leather regenerator, band transporters and shoes, plasticizer films and adhesives, and all materials that need non-migration.

Dosage

6–50 % about resins weight, depending of application

Packaging

Container of 1100 Kg and drums of 230 Kg