

Technical Data Sheet

Preface

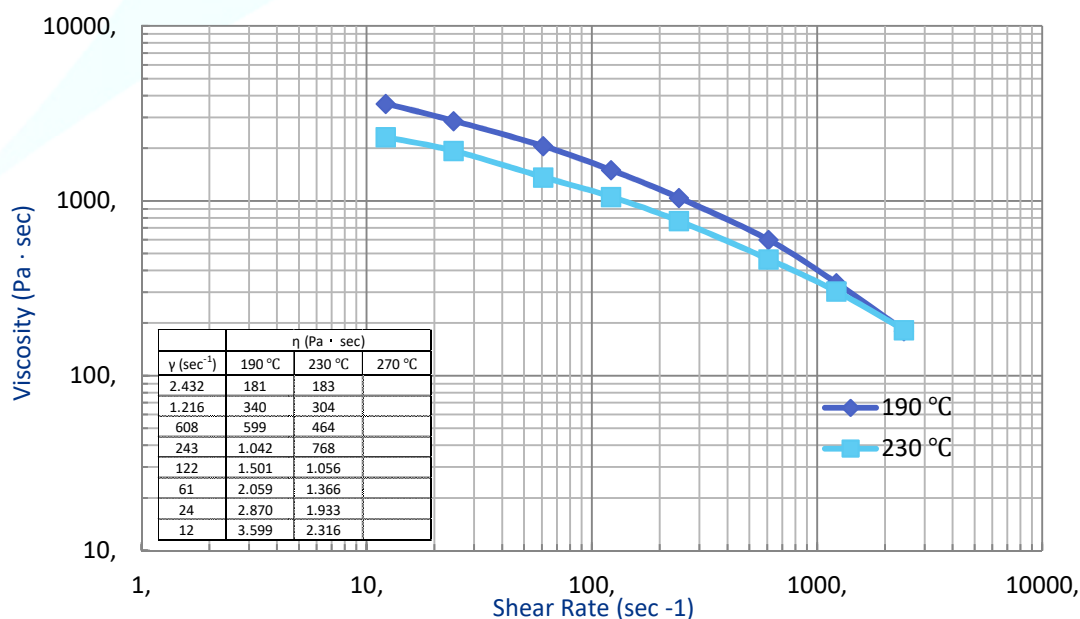
ADMER™ NF410E is a maleic anhydride grafted, PE-LLD-based adhesive resin designed for multilayer pipes composed of PE, PEx or PE-RT with EVOH, PA or Aluminum. It offers advanced adhesion durability and good processability.

Properties

Item	Value	Unit	ASTM Testing Method
MFR (190°C, 2.16kg)	1.6	g/10 min	D1238
Density	0.92	g/cm ³	D1505
Tensile Strength at Yield	9.8	MPa	D638
Tensile Strength at Break	24	MPa	D638
Elongation at Break	> 500	%	D638
Izod Impact Strength	No Break	J/m ²	D256
Shore Hardness	50	D scale	D2240
Vicat Softening Point	100	°C	D1525
Melt Temperature	121	°C	ISO 11357-3
Oxidative Induction Time	> 55	min	ISO 11357-6 (210°C)

Vicat measured at load 1 (10N), rate A (50°C/h)

Flow curve of ADMER™ NF410E



Processing

The recommended standard processing temperatures for ADMER™ PE-Grades:

C1	C2	C3	C4	ADMER Melt Temp.
180 ... 200	180 ... 200	200 ... 230	200 ... 230	200 ... 230

Maximum temperature: 300 °C; Temperatures above the upper limit or long residence times of molten resin may lead to decomposition of the polymer. Decomposition products may be carbon monoxide, carbon dioxide, hydrocarbons and water.

Whilst the extrusion process is either interrupted or terminated:

Less than 2 hours: Screw rotation can be stopped maintaining temperature.

More than 2 hours: Purge out and shut down in accordance with common procedure.

Handling

ADMER™ resins are supplied in the form of small, free flowing pellets and can be easily handled with commercially available equipment. As long as ADMER™ is stored under good conditions, it does not require any special care in storage. Precaution should be taken in opening the package to avoid contamination by foreign materials.

Since ADMER™ is a non-hygroscopic material, it absorbs less moisture than non-polyolefin polymers. Therefore, ADMER™ does not require drying prior to processing.

ADMER™ can be disposed of by either landfill or incineration. However, any disposal must comply with local regulations and recommendations.

Food Status

This information is only suitable for grade selection. For detailed information always refer to our Food Contact Status Declaration which is available on request. It is the full responsibility of the manufacturer of food contact materials or articles to ensure the suitability of above mentioned ADMER™ grade in its intended application.

EU: Monomers and additives are listed as authorized monomers/additives in Annex I of Regulation (EU) No. 10/2011 as amended. Please refer to our Food Contact Status Declaration regarding substances restricted by SMLs and Dual Use Additives. (Status: 8th August 2019).

USA: This ADMER™ grade conforms to FDA 21 CFR §175.105 (Adhesives) for indirect food contact. Please contact us for further details.

Disclaimer:

The information and numerical results are for information only and are given in good faith.

In view of numerous factors of which we are unaware and which are beyond our control regarding the use of our products, we cannot guarantee that this information covers all possible aspects of the subject. Moreover, we cannot accept any responsibility with regard to patents for applications and processes described.