ADMER™ NF837E

PE-Grade
MFR: 10.0
Density: 0.92

Technical Data Sheet

Preface

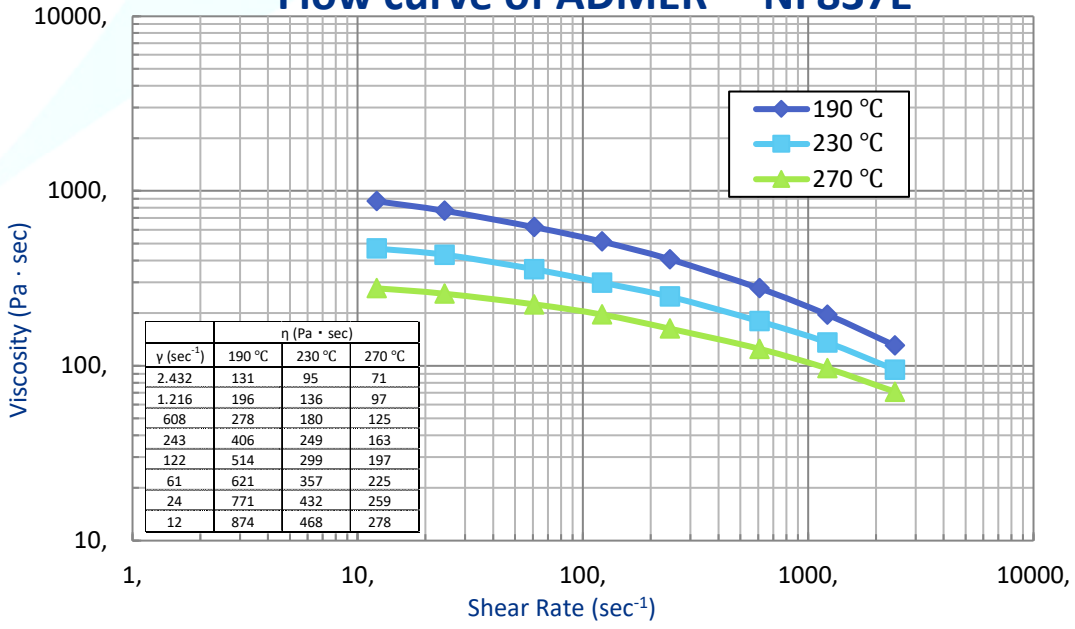
ADMER™ NF837E is a maleic anhydride grafted, PE-LLD-based grade, which is especially designed for high-speed extrusion coating application. It offers strong adhesion to EVOH, PA, Paper and Aluminum.

Properties

Item	Value	Unit	ASTM Testing Method
MFR (190°C, 2.16kg)	10.0	g/10 min	D1238
Density	0.92	g/cm³	D1505
Tensile Strength at Yield	7.6	MPa	D638
Tensile Strength at Break	16.0	MPa	D638
Elongation at Break	> 500	%	D638
Izod Impact Strength	No Break	J/m²	D256
Shore Hardness	44	D scale	D2240
Vicat Softening Point	82	°C	D1525
Melt Temperature	114	°C	D3418

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

Flow curve of ADMER™ NF837E



	η (Pa · sec)		
γ (sec⁻¹)	190 °C	230 °C	270 °C
2.432	131	95	71
1.216	196	136	97
608	278	180	125
243	406	249	163
122	514	299	197
61	621	357	225
24	771	432	259
12	874	468	278

Mitsui Chemicals Europe GmbH · Oststrasse 34 · 40211 Düsseldorf · Germany
Telephone: (+49)211-17332-0 · Fax: (+49)211-1719960 · Internet: www.admer.eu

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Processing

The recommended processing temperatures for ADMER™ PE-Grades:

C1	C2	C3	C4	ADMER™ Melt-Temp.
190 … 200	220 … 240	240 … 270	270 … 280	280 … 290

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. We recommend to store ADMER™ at a dry and clean place at room temperature without sunlight exposure. 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 re-used, recycled or incinerated with energy recovery. We do not recommend disposing of ADMER™ on a landfill. 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 to the current date. Please refer to our Food Contact Status Declaration regarding substances restricted by SMLs and Dual Use Additives.

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

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