

## Technical Data Sheet

### Preface

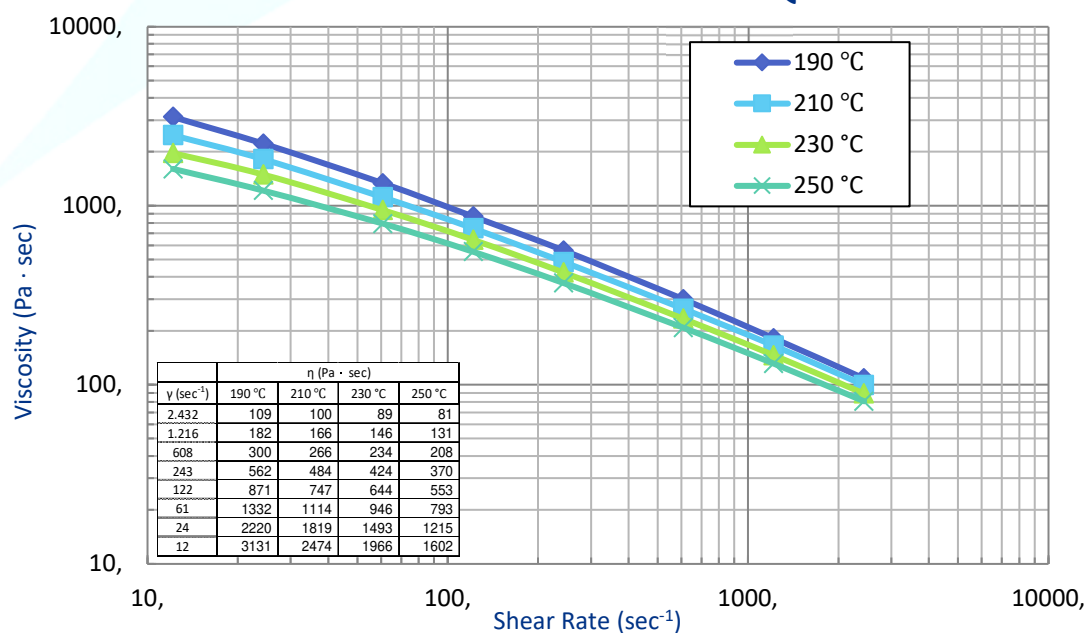
ADMER™ QF460E is a maleic anhydride grafted, co-PP based tie resin, especially designed for multilayer pipes combining PP or PB with Aluminum, EVOH or PA.

### Properties

Item	Value	Unit	Testing Method
MFR (230°C, 2.16kg)	3.2	g/10 min	ASTM D1238
Density	0.90	g/cm <sup>3</sup>	ASTM D1505
Tensile Strength at Yield	21	MPa	ASTM D638
Tensile Strength at Break	32	MPa	ASTM D638
Elongation at Break	> 500	%	ASTM D638
Izod Impact Strength	No Break	J/m <sup>2</sup>	ASTM D256
Shore Hardness	60	D scale	ASTM D2240
Vicat Softening Point	122	°C	ASTM D1525
Melting Point	148	°C	ISO 11357-3
Oxidative Induction Time	44	min	ISO 11357-6, 210° C

Test specimens prepared by compression moulding according to ISO 19069 and ASTM D638, D1525 and D2240; Vicat measured at load 1 (10N), rate A (50°C/h)

### Flow curve of ADMER™ QF460E



## Processing

The recommended processing temperatures for ADMER™ can be found in our temperature proposal.

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.

## Pipe Approvals

Approval for the usage of certain ADMER™ grades in pipe applications must always be obtained by pipe manufacturers. We will support customers in the pipe sector in that approval process by directly disclosing the required information to authorized testing laboratories on request. Evidence of ageing resistance of ADMER™ pipe grades according to DVGW W542 and ISO2578 has been obtained.

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.