

Technical Data Sheet

Preface

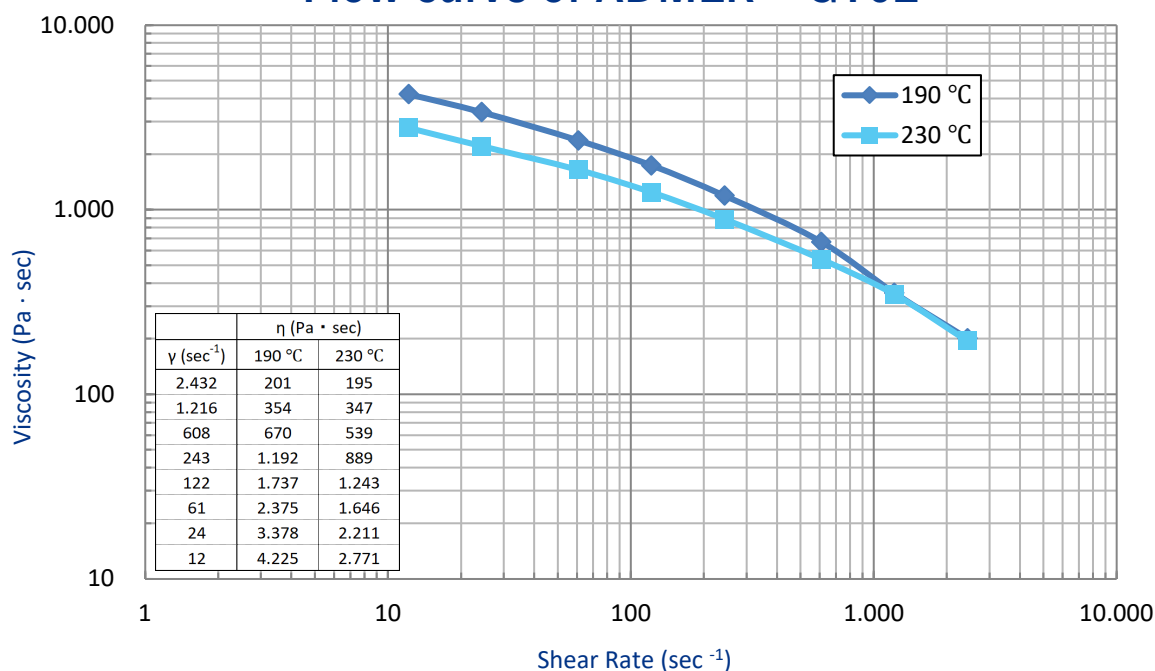
ADMER™ GT6E is a maleic anhydride grafted, LLDPE-based adhesive designed for multilayer plastic fuel tanks (PFT) composed of PE, PA and EVOH. It offers advanced adhesion durability, fuel resistance and processability.

Properties

| Item | Value | Unit | Testing Method |
|---------------------------|----------|-------------------|----------------|
| MFR (190°C, 2.16kg) | 1.1 | g/10 min | ISO 1133 |
| Density | 0.92 | g/cm ³ | ISO 1183 |
| Tensile Strength at Yield | 11 | MPa | ISO 527 |
| Tensile Strength at Break | 25 | MPa | ISO 527 |
| Elongation at Break | > 500 | % | ISO 527 |
| Izod Impact Strength | No Break | J/m ² | ISO 180 |
| Shore Hardness | 51 | D scale | ISO 868 |
| Vicat Softening Point | 102 | °C | ISO 306 |
| Melting Point | 122 | °C | ISO 11357 |

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

Flow curve of ADMER™ GT6E



Processing

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

| | C1 | C2 | C3 | C4 | ADMER™ Melt-Temp. |
|-----------|-------------|-------------|-------------|-------------|-------------------|
| With PA | 180 ... 190 | 190 ... 200 | 200 ... 210 | 210 ... 220 | 220 ... 230 |
| With EVOH | 170 ... 180 | 190 ... 200 | 200 ... 210 | 200 ... 210 | 220 ... 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. 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.

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.