ADMER™ GT6E

PE-Grade
MFR: 1.1
Density: 0.92

Technical Data Sheet

Preface

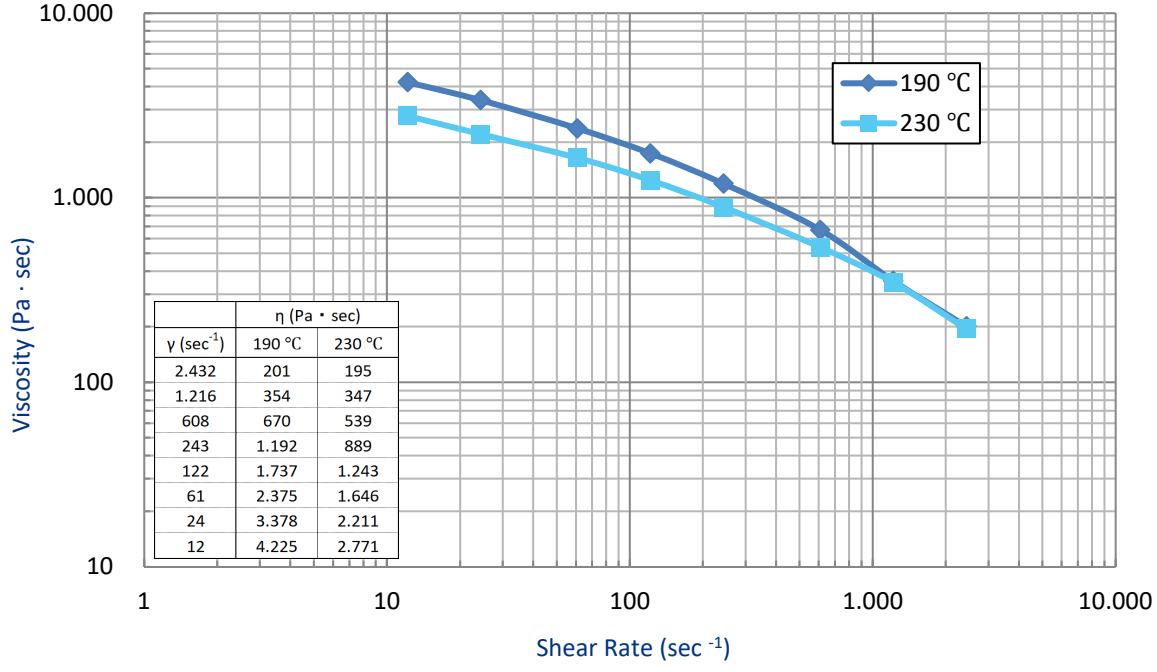
ADMER™ GT6E is a maleic anhydride grafted, LLDPE-based adhesive designed for multilayer plastic fuel tanks (PFT) composed of PE, PA and EVOH. It offers advanced adhesion durability, fuel resistance and processability.

Properties

Item	Value	Unit	ASTM Testing Method
MFR (190°C, 2.16kg)	1.1	g/10 min	ISO 1133
Density	0.92	g/cm³	D1505
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/m²	D256
Shore Hardness	51	D scale	ISO 868
Vicat Softening Point	102	°C	D1525
Melting Point	122	°C	ISO 11357

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

Flow curve of ADMER™ GT6E



	η (Pa · sec)	
γ (sec^{-1})	190 °C	230 °C
2.432	201	195
1.216	354	347
608	670	539
243	1.192	889
122	1.737	1.243
61	2.375	1.646
24	3.378	2.211
12	4.225	2.771

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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.

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