

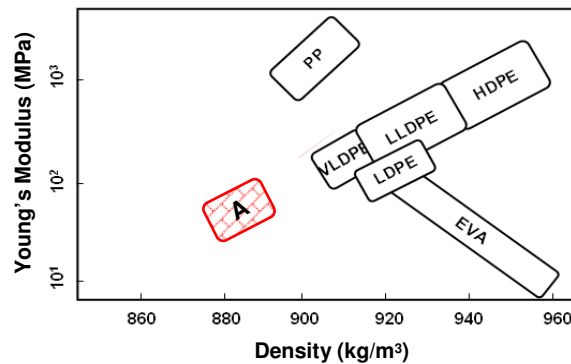
**TAFMER™ A**

Ethylene based  $\alpha$ -olefin copolymer

TAFMER™ A is miscible with polyethylene (PE). It is used as a modifier of PE to improve Heat Seal Initiation Temperature (HSIT), impact resistance and flexibility.

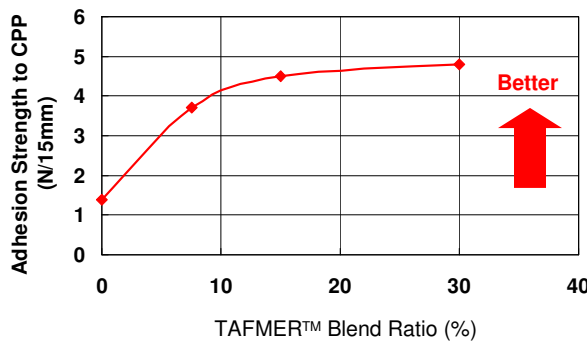
General characteristics attributed to TAFMER™ A:

- Low Young's Modulus for Softness and Flexibility
- Miscible with PE and Compatible with PP for Adhesion Strength Control



**PP Adhesion Strength**

PE and PP are incompatible. Without any Anchor coating (Ac) agent, Adhesion strength between the two polymers is too weak for practical use. TAFMER™ A, which is compatible with PP, can improve heat seal strength of PE layer to PP.



O-PET //Ac// LDPE+ TAFMER™ A / CPP  
 PP: MFR(230 °C)=7 g/10min, Tm=140 °C  
 LDPE: MFR(190 °C)=7 g/10min, Density=920 kg/m<sup>3</sup>  
 TAFMER™ A-4085S  
 Extrusion Temperature: 300 °C

**Summary**

TAFMER™ A

- Enables PE to adhere to PP

### Basic Properties

Physical Properties	Test Method	Unit	A-4085S	A-20085S
MFR(190°C/2.16kg)	ASTM D1238	g/10min	3.6	18
MFR(230°C/2.16kg)	ASTM D1238	g/10min	6.7	33
Density	ASTM D1505	kg/m <sup>3</sup>	885	885
<b>Mechanical Properties</b>				
Tensile Strength at Break	ASTM D638	MPa	> 27	12
Elongation at Break	ASTM D638	%	> 1000	950
Torsional Rigidity	ASTM D1043	MPa	9	9
Surface Hardness (Shore A)	ASTM D2240	—	86	86
<b>Thermal Properties</b>				
Melting Point	MCI Method	°C	66	66
Brittleness Temperature	ASTM D746	°C	< -70	< -70

Note: All of the above listed data are representative values, and not specific ones.

#### FDA

All the monomers and additives used in the above TAFMER™ grade are listed in the “FCN (Food Contact Notification)”.

#### EU Directive

All the monomers and additives used in the above TAFMER™ grade are listed in the EU Directive 2002/72/EC and its amendment 2008/39/EC.

The only additives with Specific Migration Limit (SML) are:

n-Octadecyl 3,5-di-t-butyl-4-hydroxy hydrocinnamate (CAS No.2082-79-3, Ref No.68320)

: SML= 6mg/kg

Please ensure that the SML and Overall Migration (OM) are within the specified value in the end-use products.

#### Disclaimer:

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