

# Technical Data Sheet

## Eastman AQ™ 55S Polymer

### Chemical Synonym

INCI: Polyester-5

### Applications

- Auto plastics
- Commercial printing inks
- Film modification
- Formulators
- General industrial coatings
- Graphic arts
- Hair care ingredients
- Multi-layer film non food contact
- Packaging components non food contact
- Packaging inks non food contact
- Paints & coatings
- Personal care ingredients
- Protective coatings
- Tape non food contact

### Key Attributes

- Excellent film formation with and without alcohol
- High gloss
- Long, lasting hold — even in rain
- Low tack
- Smudge resistant
- Tunable firmness
- Water resistant

### Product Description

Eastman AQ™ 55S polymer is a sulfopolyester that disperses directly in hot water without the assistance of surfactants or other additives. AQ 55S polymer aids the dispersion of many hydrophobic ingredients in water-based products and forms clear films at room temperature from aqueous dispersions. Eastman AQ™ 55S has good film integrity when combined with other cosmetic ingredients and is the preferred AQ polymer to improve water and smudge resistance of water-based makeup and mascaras. In hairstyling products, AQ 55S provides excellent hold under high-humidity conditions and stiffness that is easily modified with plasticizers and thickeners. The "S" indicates AQ 55S is supplied as solid pellets.

### Typical Properties

Property <sup>a</sup>	Typical Value, Units <sup>b</sup>
<b>General</b>	
Form	Pellets
Color	Pale amber
Glass Transition Temperature (T <sub>g</sub> )	
Dry Polymer	51-55 °C
Inherent Viscosity	0.29-0.37 dL/g
Melt Viscosity	
@ 200°C	42000 poise
Acid Number	<2 mg KOH/g
Hydroxyl Number	<10 mg KOH/g
Bulk Density	6.8 lb/gal

<sup>a</sup>Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

<sup>b</sup>Units are in SI or US customary units.

### Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any

particular shipment will conform exactly to the values given.

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