

Technical Data Sheet

Eastman AQ™ 55S Polymer

Chemical Synonym

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 ^a	Typical Value, Units ^b
General	
Form	Pellets
Color	Pale amber
Glass Transition Temperature (T _g)	
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

^aUnless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

^bUnits 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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