

Technical Data Sheet

Eastman AQ™ 38S Polymer

Chemical Synonym

Polyester-5

Applications

- Adhesives/sealants-b&c
- Paints & coatings
- Personal care ingredients
- Skin care ingredients

Key Attributes

- Aids the emulsification of organic ingredients
- Low-viscosity hairsprays
- No neutralization needed
- Quick drying
- Water resistant

Product Description

Eastman AQ™ 38S polymer is a sulfopolyester that disperses directly in hot water without the assistance of amines, cosolvents, surfactants or other additives. AQ 38S polymer aids the dispersion of many hydrophobic ingredients in water-based products and forms clear films at room temperature from aqueous dispersions. Eastman AQ™ polymers differ chiefly in glass transition temperature (T_g) or softening point. As indicated by the number in the product name, Eastman AQ 38S polymer has a T_g of about 38°C. The "S" indicates AQ 38S is supplied as solid pellets. Eastman AQ linear polyesters serve as film formers in numerous cosmetic and personal care applications. Because of its low T_g , Eastman AQ™ 38S forms flexible films on the skin. It imparts a smooth feel to creams, lotions, and sprays and adheres to the skin. Thus, it is useful as a film-former in sunscreen products, providing excellent water resistance. AQ 38 is added to the water phase and aids the emulsification of oil-phase UV absorbers. AQ 38 provides improved coverage for sprayable sunscreens.

Typical Properties

Property ^a	Typical Value, Units ^b
General	
Form	Pellets
Color	Pale amber
Glass Transition Temperature (T_g)	
Dry Polymer	35-38 °C
Inherent Viscosity	0.32-0.40 dL/g
Melt Viscosity	
@ 200°C	9700 poise
Acid Number	<2 mg KOH/g
Hydroxyl Number	<10 mg KOH/g
Bulk Density	6.5 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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