



## Product Data Sheet

### *Epolene*® E-43 Polymer

#### Application/Uses

- Automotive
- Bookbinding
- Building and Construction
- Caulks and Sealants
- Hot Melt Adhesives
- Laminating
- Solventborne Adhesives
- Waterborne Adhesives

#### Key Attributes

- Coupling agent and compatibilizer for PP composites and alloys
- Excellent pigment dispersion aid
- Maleic anhydride grafted polypropylene (PP)
- Provides slip resistance in floor polish finishes
- Useful in adhesive blends

#### Product Description

*Epolene* E-43 is a maleic anhydride grafted polypropylene recommended as a coupling agent for polypropylene (PP) composites and for providing slip resistance in floor finish emulsions. Because of the polarity and anhydride functionality, *Epolene* E-43 is useful for laminating, as a compatibilizer for PP blends with nylon or EVOH, and for enhancing the strength of composites that utilize reinforcements / fillers such as glass, talc, calcium carbonate, and metals.

#### Typical Properties

Property	Test Method	Typical Value, Units
Polymer Type		Ma-PP
Acid Number (mg KOH/g)		45
Ring and Ball Softening Point		158°C
Penetration Hardness <sup>a</sup>	ASTM D 5	<1 dmm
Viscosity, Brookfield		
@ 125°C (257°F)		Solid @ this temp
@ 190°C (374°F)		300 cP
Molecular Weight <sup>b</sup>		9,100

<sup>a</sup> Needle under 100-g load for 5s @ 25 deg C, tenths of mm

<sup>b</sup> Molecular weight measured via Gel Permeation Chromatography (GPC) using polystyrene standards

#### Comments

Properties reported here are typical of average lots. Westlake makes no representation that the material in any particular shipment will conform exactly to the values given.

## Compatibility and Solubility

*Epolene* polymers are compatible with many polymers, resins, and natural and synthetic waxes.

## Packaging

*Epolene* E-43 is supplied as free-flowing pellets, packaged in multiwall paper bags with a polyethylene coated inner liner [22.67 kg (50 lb) net weight]. The bags are palletized and stretch wrapped to prevent contamination during storage and shipment. Many *Epolene* polymers are also shipped in a variety of bulk containers.

*Epolene* E-43 polymer is available in powder form as *Epolene* E-43P polymer.

## Storage

The useful life of this product can be affected by storage and handling conditions. When stored in the original unopened container in an enclosed area and protected from moisture, extreme temperatures and contamination, this product is estimated to continue to meet applicable sales specifications for more than 3 years from the date of manufacture. First in first out (FIFO) inventory control is recommended.

It is your responsibility to determine that our product is safe, lawful and technically suitable for your intended uses. Please note that this letter is provided to you as one of the means to assist you in analyzing our product, and does not serve to modify or amend our sales contract or sales arrangement.

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