



## **Product Data Sheet** *Epolene® E-43P 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-43P* is a maleic anhydride grafted polypropylene powder 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-43P* 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
Form		Powder

<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.

*Westlake and its marketing affiliates shall not be responsible for the use of this information, or of any product,*

---

*method, or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. No warranty is made of the merchantability of fitness of any product, and nothing herein waives any of the Seller's conditions of sale.*

## **Compatibility and Solubility**

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

## **Packaging**

*Epolene* E-43P is supplied as free-flowing powder, packaged in multiwall paper bags with a polyethylene coated inner liner [40 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-43P polymer is available in pellets form as *Epolene* E-43 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 2 years from the date of manufacture. First in first out (FIFO) inventory control is recommended.