



## Product Data Sheet Epolene® C-26 Polymer

### Application/Uses

- Automotive
- Building and Construction
- Rubber and Plastic Modification

### Key Attributes

- Balances attraction between polar fillers / reinforcements and non polar polymers
- Coupling agent for PE composites
- Maleic anhydride grafted polyethylene (PE)

### Product Description

*Epolene C-26* is a maleic anhydride grafted polyethylene coupling agent for polyethylene (PE) composites. The polar functionality and molecular weight are optimized to provide balanced attraction between PE and reinforcements / fillers like glass, wood, minerals, and metals. *Epolene C-26* Polymers are products of Westlake Chemical Corporation and are protected under one or more of the following U.S. patents: 5,955,547 and 6,046,279; and their foreign equivalents.

### Typical Properties

Property	Test Method	Typical Value, Units
Polymer Type		Ma-PE
Acid Number (mg KOH/g)		8
Ring and Ball Softening Point		122 DSC T <sub>m</sub> , °C
Penetration Hardness <sup>a</sup>	ASTM D 5	<1 dmm
Viscosity, Brookfield <sup>b</sup>		
@ 125°C (257°F)		Solid @ this temp
@ 190°C (374°F)		MI = 8
Molecular Weight <sup>c</sup> M <sub>w</sub>		65,000

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

<sup>b</sup> MI = Melt Index @ 190 deg C, 2.16 kg weight

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

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### Compatibility and Solubility

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

**Packaging**

*Epolene* C-26 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.

**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.