



Product Data Sheet

Epolene[®] C-17 Polymer

Application/Uses

- Hot Melt Adhesives
- Packaging
- Solvent borne Adhesives
- Wax Modification

Key Attributes

- Enhances paraffin wax coating properties like gloss, grease resistance, and MVTR
- Excellent thermal stability
- Low color
- Medium molecular weight
- Useful in color concentrates

Product Description

Epolene C-17 is a branched low density polyethylene with a relatively high melt point and viscosity compared to other *Epolene* C-type Polymers. It is useful to modify paraffin wax to improve the blend viscosity, grease resistance, blocking temperature, scuff resistance, and gloss. *Epolene* C-17 commonly replaces granular LLDPE as the base polymer in color concentrates because it's easier to process and has higher output rates. *Epolene* C-17 has good high temperature stability, low color, low temperature flexibility, and excellent compatibility with various tackifying resins.

Typical Properties

Property	Test Method	Typical Value, Units
Polymer Type		PE
Ring and Ball Softening Point	ASTM E 28	133°C
Penetration Hardness ^a	ASTM D 5	2 dmm
Viscosity, Brookfield ^b		
@ 125°C (257°F)		Solid @ this temp
@ 190°C (374°F)		MI = 19
Molecular Weight ^c		100,000

^a Needle under 100-g load for 5s @ 25 deg C, tenths of mm

^b MI = Melt Index @ 190 deg C, 2.16 kg weight

^c 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 C-17 polymer 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 C-17 polymer is also available in powder form as *Epolene* C-17P 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 4 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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