

Product Data Sheet

Armowax[®] W-440

Chemical description Polymer ester of long chain alcohol, pastilles

CAS No. : 134210-67-6
 EINECS/ELINCS No. : polymer
 TSCA status : listed on inventory

Specifications

Appearance : Pastilles
 Viscosity, 80°C : 200-400 mm²/s
 Acid value : 8 mg KOH/g max.

Characteristics

Density, 20°C : 940 kg/m³
 Melting point/range : 45-48°C
 Flash point (Cleveland Open Cup) : 115°C
 Solubility in water : practically insoluble

Storage

AkzoNobel recommends to store *Armowax W-440* in a dry well-ventilated place in the temperature range between from 5°C (41°F) to 20°C (68°F). Prolonged storage over 35°C (95°F) can cause some caking and discoloration.

When stored under the recommended storage conditions, *Armowax W-440* will remain within the AkzoNobel specifications for a period of at least 12 months after delivery.

Packaging and transport

The standard packaging is 20 kg (44.1lb) net in a PE bag in a cardboard box. A full pallet carries 800 kg (1764 lb) net.

Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your AkzoNobel representative.

Armowax W-440 is classified as a non-dangerous good according to national and international transport regulations.

Safety and handling

Please refer to the Material Safety Data Sheet (MSDS) for detailed information on the safe storage, use and handling of , *Armowax W-440*. This information should be thoroughly reviewed prior to acceptance of this product.
 The MSDS is available at www.akzonobel.com/polymer.

Applications

Armowax W-440 is a unique processing aid and compatibiliser for highly filled polyolefins, however also suitable for engineering polymers and elastomers. It offers remarkable improvement in processing behavior and properties of the filled polymer compounds.

Armowax W-440 is polymeric ester of a long chain alcohol. Due to this the molecule contains hydrophobic as well as hydrophilic groups. For that reason it is also described as a double comb polymer. The combination of hydrophobic and hydrophilic groups provides improved wetting of the filler surface by the polymer matrix. Thereby ensuring optimum dispersion.

This results in:

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| During compounding | <ul style="list-style-type: none">- reduced melt viscosity- reduced contamination of equipment- increased melt strength |
| During processing | <ul style="list-style-type: none">- improved flow properties- improved mold release behavior- reduced contamination of equipment |
| During end use | <ul style="list-style-type: none">- improved surface gloss- increased impact strength- increased elongation at break |

The recommended dose of *Armowax W-440* range from 0.5% to 2%. Calculated on the total mixture of filler and polymer. However in view of the variety of fillers available and polymer grades, as well as the ratio between these components, the optimum level has to be determined in each specific case.

Armowax W-440 pastilles show uniform particle size, providing excellent flow behavior, enabling easy dosing and mixing.

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