

November 12, 2012

Object: Difference between Pebax SA 01 and Pebax SA 01 MED grades

Dear Customer,

The chemistry, composition, and process used to make Pebax® SA 01 MED are the same as the ones used to produce Pebax® SA 01. Pebax® SA 01 MED offers the following added benefits:

1. *Pebax® SA01 MED grades currently have 365 days change notification. This means that we are committed to provide information on plans to change specifications or manufacturing location 1 year prior to the date at which we plan to make these changes. Arkema considers that it is not bounded to such commitment for our industrial grades such as Pebax® SA 01.*
2. *Pebax® SA 01 MED grades have dedicated manufacturing locations which is not the case for industrial grades such as Pebax® SA 01 grades.*
3. *Pebax® SA 01 MED grades have a lower gel rating of 1 while Pebax® SA 01 grades can have a gel rating of 1 or 2. A lower gel rating signifies a higher quality.*
4. *The moisture specification for Pebax® SA 01 MED grades is < 0.08%, while for Pebax® SA 01 it is higher and can reach up to 0.15%.*
5. *For our Pebax® SA 01 MED grades Arkema offer the possibility to produce lots within a specific viscosity target. These are special orders that are made according a specific customer request.*
6. *Arkema provides USP VI compliance letters for Pebax® SA 01 MED.*
7. *There is no dry blending of various lots in the drying phase for Pebax® SA 01 MED grades. This is to insure consistency within the lot.*

Our Pebax® SA 01 MED are currently manufactured in 2 plants.

Our Serquigny plant (France) produce:

2533 SA01 MED

3533 SA01 MED

4033 SA01 MED

4533 SA01 MED (new name for MX1205 SA01 MED, renaming ongoing)

Our Birdsboro plant (USA) produce:

5533 SA01 MED

6333 SA01 MED

7033 SA01 MED

7233 SA01 MED

For SA01 grades, as stated above, the production site can be either Serquigny or Birdsboro for all product line and we can switch from one to the other without notification

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As mentioned above both our plant uses similar processes, the properties of a given grades are independent of the manufacturing location. The properties of a Pebax® SA 01 MED grade are the same as the properties of its respective Pebax® SA 01 version. The manufacturing specifications of a Pebax® SA 01 MED grade will be equal or tighter than the manufacturing specifications of its respective Pebax® SA 01 version. In Pebax® SA 01 MED and Pebax® SA 01 the no additives are added to the base polymer

Regards

A handwritten signature in black ink, appearing to read "Eric Gamache", with a long horizontal flourish extending to the right.

Eric Gamache Ph.D
Technical Service Manager North America