

**UAB NEO GROUP requirements for packaging**

Property	Value	Test method
Intrinsic Viscosity (IV)		<b>ASTM 4603 Capillary visc.</b>
<b>For still water</b>	<b>0.76 +/- 0.02</b>	
<b>For non-carbonated drinks</b>	<b>0.80 +/- 0.02</b>	
<b>For CSD (Carbonated Soft Drink)</b>	<b>0.82-0.84 +/- 0.02</b>	
Melting Temperature (Tm)	<b>248 +/- 4 °C</b>	<b>Stuart <sup>TM</sup> SMP3</b>
Acetaldehyde content (AA)	<b>Max 1 ppm</b>	<b>LAB AT689N Gas chromatography</b>
Contamination (non-PET material)	<b>0 ppm</b>	
Humidity	<b>&lt;0.2 %</b>	<b>Hydro Tracer FLV AO 0815 1415</b>
Metal contaminations (Ferrum, stain steel, Aluminum)	<b>0 ppm</b>	
Other non-PET contaminations	<b>0 ppm</b>	

**Critical defects AQL 0.015%** - delivered material will not be accepted

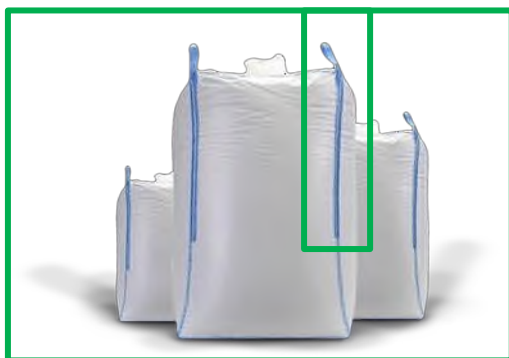
- 1. Color variation** – color variation in the same delivered lot among the Big Bags exceeds  $\Delta E 5$
- 2. Intrinsic Viscosity (IV)** – deviation in the same delivered truck exceeds 0.02 dl/g between big bags
- 3. Pellet size** – inconsistent pellet size
- 4. Stuck pellets** – pellets that are stuck together
- 5. Contamination** – contamination of the Big Bag and the presence of foreign materials inside
- 6. Missing delivery information** - delivered material without labels or a quality certificate of analysis.

### Requirements for Packaging

The PET (Polyethylene Terephthalate) material must be packed in dry, clean big bags. Each bag must have an inner plastic layer and be placed on pallets that are dry, clean, free of mold and not chemically treated. All big bags must be covered with an external plastic bag.

Each big bag must be labeled. The label must include batch number, big bag number, production date, grade name, supplier name.

Only material packed in big bags as shown in the green-framed example below will be accepted with particular attention to the condition of the big bag handles. Material packed in big bags as shown in the red-framed example will be refused.







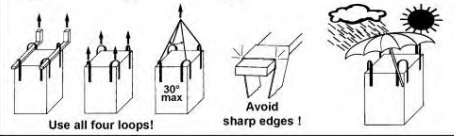


YES



NO

Material big bags must have specification labels that include information about storage conditions. The Safe Working Load (SWL) indicated on the label must not be less than the actual weight of the raw material contained in the bag. SWL test report must be provided on request.

<b>ABC - Company</b> 10 Downing Street <b>London</b> Tel. 0044. 1234.5678910 Fax. 0044. 1234.5678911			FIBC type: <b>LK 0815/1000/5</b> 
<b>SWL 1000 kg    Safety Factor 5 : 1</b>			
  	Test Certificate No    201234.1/01-6		
	Test Certificate Date    11.06.2001		
	Approved Laboratory    Labordata		
	Test Standard    EFBCA 005		
	FIBC Class <b>Single trip</b>		
Date FIBC manufactured    06 / 2001			
			
			
<b>XYZ - Company, 40 Camphill Road, Dundee, Scotland UK</b> Tel. 0044. 9876.543210    Fax. 0044. 9876.543211			

All material packed in big bags must be placed on either plastic or wooden pallets:



Material placed on pallets made of pressed wood or two-way pallets **will not be accepted during unloading:**



#### **Additional requirements for Wooden Pallets**

The *International Plant Protection Convention* (IPPC) requires that pallets crossing national borders must be made from materials that cannot transmit plant diseases or pests. These requirements are defined by the ISPM 15 standard:

- Pallets must be marked with the official IPPC symbol.
- Pallets made from untreated wood do not meet the requirements of this standard. Therefore, all pallets delivered to Retal factories must be heat-treated and confirmed by the HT marking.
- The use of chemicals such as pesticides, fungicides, wood preservatives (including chlorinated or brominated phenol mixtures and halogenated phenols) is strictly prohibited.
- The moisture content of the wood must not exceed 22%, including crossbars, lengthwise planks and bricks/blocks.