

SS – 17: POLYPROPYLENE STANDARD SPECIFICATION – APP

- 1) **PRODUCT DESCRIPTION:** By product resulted from **low**-pressure propylene polymerization.
- 2) **APPLICATIONS:** Improvement of bitumen quality in order to produce waterproof materials, yarn base, plasticizers.
- 3) **PROPERTIES:**

PROPERTIES	UM	LIMITS	TEST METHOD
APPEARANCE:	-	Gluey wax, colored in off white, grey to brown.	VISUAL
PHYSICAL			
Softening point (ring and ball)	°C	90 - 155	SR EN 1427
Polymer's volatile content by headspace method	% m/m	Max. 4	ASTM D6980

- 4) **QUALITY CONTROL:** Control is done on lots.
 - Each lot will have max 40 tons
 - During test operation, the product must comply all the parameters depicted in this standard specification
 - In case of litigation, the control of the quality will be done in the presence of the client representative, using the samples kept for those cases. The samples will be taken in accordance with the sampling procedure.

NOTE: All tests will be performed using the supplier's testing machines.
- 5) **SAMPLING PROCEDURE:**
 - Sampling will be random done from max 5% total boxes but not less 3 boxes per lot.
 - The samples will be put into dry and clean polyethylene bags.
 - The bags containing the samples are sealed and labeled.

NOTE: One sample is analyzed in the laboratory of the supplier, and the other will be kept three months after delivery, for control in case of litigation.
- 6) **DELIVERY:** 34-35 kg APP/ boxboard. By request, batching and delivery can be done in customer boxes if those are appropriate with technical condition of the plant process.
- 7) **GUARANTEE:** The product is guaranteed 3 months after delivery under the recommended "handling, transport and storage" conditions according to MSDS-02.
- 8) **VALABILITY:** The product is guaranteed 12 months after production data, under the recommended "handling, transport and storage" conditions, according to MSDS-02. The valability can be extended by a new inspection and evaluation of the quality.
- 9) **DOCUMENTS:** Certificate of conformity /Test report.
- 10) **HANDLING, STORAGE AND TRANSPORT INFORMATION:** According to "SAFETY DATA SHEET" - MSDS - 02.
- 11) **OTHER INFORMATIONS:**

The MSDS is available by Sales Marketing Rompetrol Petrochemicals offices for the customers .The MSDS contains necessary information in order to ensure customers' own safe in handling and processing activity. The information below is related only to the delivered product. Related to further added components, the users have to see that specific documentation.

Safety

Atactic **polypropylene** is an inert commercial polymer at room temperature and under normal handling induces no hazard. The polymer contain hexane residue, which is toxically product. Product storage must be in accordance with MSDS procedure. The working people should avoid skin long contact with solid or molten polymer. As precaution to prevent skin and eyes injury, protective gloves, apron, and safety glasses are indicated. Fabrication areas should be well ventilated in order to maintain the concentration of hexane in permissive limits. Inhalation of hexane for a long period affect central nervous system. In high concentration produce cephalgia, dizziness, eyes irritation and rough breathing. It is recommended the local ventilation in order to prevent dispersion of insult in work area. The work area must be fitted with special area for eyes washing and protective showers for emergency cases. Workplace environments should be kept clean and free of dust.

Management quality –environment-health safety system is certified according to EN ISO 9001, EN ISO 14001 and OHSAS 18001 by Germanischer Lloyd Certification GmbH.

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Fire hazard

Atactic **polypropylene** is a flammable substance, due to the high content of volatiles, especially of hexane (flammable and toxic component). Under normal storage conditions there is no ignition hazard. In contact with flame it becomes soft, flows, ignites and burns until exhausting. Therefore it has to be handled and stored avoiding contacts with open flames or other ignition sources. While burning, it releases high heat and a dense black smoke. In closed areas, fire fighters must use self-contained breathing apparatus.

Recycling

Atactic Polypropylene does not represent a recyclable material.

Disposal

Disposal of any wastes should respect all national and local valid regulations. The below information are related to atactic polypropylene. The influence of the additives, fillers or other materials added by buyers must be taken into consideration using the related documentation. Atactic polypropylene can be disposed by controlled incineration, respecting valid regulations regarding gaseous emission or solid particles discharges. Due to the high level of heat enduced, incineration has to be done only in dedicated units.

The mission assumed by Rompetrol Petrochemicals is to build a strong partnership supplier/customer. Assuming this purpose, Rompetrol Petrochemicals intents to offer products of high quality for satisfaction of all customers' needs and expectations, to keep permanently contact with clients in order to acknowledge processing troubleshooting, to ensure technical support to solve them, to develop new products for existing or potential markets. Rompetrol Petrochemicals recognizes community concerns regarding his potential impact activity on the environment and therefore encourages his customers to review their processes from the human health and environment point of view. In order to prevent using the products in manners for which they are not intended or tested, Rompetrol Petrochemicals offer to its customers product literature, including suitable Material Safety Data Sheet, that should be consulted prior to use its products.

NOTE: We do not undertake any responsibility or liability for using Rompetrol Petrochemicals' products for other purposes than the ones recommended in this standard specification. It is the customer's responsibility to inspect and test our products in order to assure himself as to their suitability for his intended use.

NOTE REGARDING MEDICAL APPLICATION RESTRICTIONS: Rompetrol Petrochemicals does not recommend any company product for applications that involve human tissues or internal fluids contacts - regardless of the contact length of time, for cardiac devices, for medical device components that support human life, as well as for applications that have connections with human reproduction.

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