SS – 05: F401 POLYPROPYLENE STANDARD SPECIFICATION

1) **PRODUCT DESCRIPTION:** Polypropylene homopolymer with basic stabilization; propylene is the only monomer used for producing F401 grade; there are not used plasticizers or colored master batches. The product has natural color.
2) **APPLICATIONS:** raffia tapes, extrusion.
3) **PROPERTIES:**

PROPERTIES	UM	LIMITS	TEST METHOD
APPEARANCE:	-	Granules of uniform color, without mechanical impurities* It is allowed max. 0.1% (w/w) of the contaminated granules**	VISUAL/GRAVIMETRIC
PHYSICAL			
Melt Flow Index (3) (230 °C / 2.16 kg)	g/10min	2,00 - 3,50	ISO 1133 B
Density at 23 °C(1,2)	g/cm^3	0,905 - 0,917	ISO 1183
MECHANICAL (1)			
Yield Strength (3) (23 °C, v=50mm/min)	MPa	min. 30	ISO 527/1,2
Yield stress (3) (23 °C, v=50mm/min)	%	min. 8	ISO 527/1,2
Flexural Modulus (3) (23 °C, v=2mm/min, secant)	MPa	min. 900	ISO 178
IZOD Impact Strength (3) (23 °C, slotted specimen)	KJ/m^2	min. 2	ISO 180/1A
THERMICAL (1)			
VICAT Softening Temperature (2) (A /50°C/h/10N)	^{0}C	min. 150	ISO 306/A
Heat deflection temperature (2) (A-120 ^{O}C/ h-1.80 Mpa)	^{0}C	min. 45	ISO 75

Note:
1) The medium value of the mechanical and thermical properties is measured on the standard samples made by injection process (ISO 3167/ ISO 1873-2) conditioned at room temperature (ISO 291)
2) Periodical tests
3) Test on batches

*) Mechanical impurities = Metal bodies, scrap wood, stone

**) Contaminated granules = granules with variations of color, with polymer inserts, irregularly shaped, flattened, with pigtails, glued, expanded or rendered.

ADDITIONAL INFORMATIONS:

- We confirm that our product fulfills requirements regarding European Regulation (UE) No. 10/2011 relating to plastic materials and articles intended to come into contact with food stuff/ drinking water, with all subsequent ammendments.
- Processing information:
  - Recommended melt temperature: 200-230^{0}C;
  - Thermical profile recommended for extrusion: 200-280^{0}C depending on the type of equipment.

4) **Quality control**: Control is done on batches.
-Each lot will have max 200 tons. The lot will contain product of the same grade.
-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 done according to the sampling procedure during packing of the batch.
- The samples will be mixed for homogenization and the quantity of sample will be reduced by the "quarter method" to minimum 5 kg.
- One sample is analyzed in the laboratory of the supplier, and the other sample will be kept three months after delivery, for control in case of litigation.
- The sample is sealed and labeled.

6) **DELIVERY:** CP4 Euro pallets (1375 kg PP/pallet), big-bags (1000 kg) and bulk in container-liner and silo truck.

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