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Technical data sheet of Polyester Chips (APE 80 RE30)

Applications:

This resin is produced by the chemical depolymerization of PCR content (30%).

Commonly used resin, with applications in CSD, juices, milk, edible oil, isotonic, food packaging material, and in water.

Technical Highlights:

JBF GE facility has a state-of-the-art technology with excellent chemical and physical properties of the resin, which include,

- spherical cut,
- low crystallinity,
- lesser drying time for preforms conversion (4-5 hours),
- lesser dust, and hence less angel hairs during handling and transportation (by virtue of the geometrical shape),
- low Acetaldehyde content,
- low VOCs.

Product properties:

SNo:	Test	Method	Unit	Specification
1	I.V.—Phenol : 1,1,2,2, TCE (60:40 W/W) @ 30.0 °C	ASTM D – 4603***	dl/ gm	0.800 ± 0.02
2	Carboxyl End groups	Titration Method	Meq /Kg	35 Max
3	ASH	Gravimetric Method	ppm	430 Max
4	Melting Point	By DSC	°C	247 ± 2
5	DEG	By Gas Chromatograph	%	1.50 ± 0.20
6	Moisture	KF Coulometer	%	< 0.10
7	Chips / gm	Number per Gram	No.	60 ± 3
8	Colour Value (CIE Lab) L*	CIE Lab D65/10°	%	70.00 Min
9	Colour Value (CIE Lab) b*	CIE Lab D65/10°	%	4.00 Max
10	Acetaldehyde Content	By Gas Chromatograph	ppm	< 1.00
11	Crystallinity	Balance Method	%	55 Max

*** Procedure based on ASTM D-4603 (LAUDA VISCOMETER)

- ❖ Packing available in Jumbo big bags, bulk silo truck and sea bulk liners.
- ❖ The resin complies with US FDA regulations CFR 21 section 177.1630 and in line with the prevailing EU regulations. Individual consumers are responsible for determining the suitability of use for their intended purpose, and are expected to ensure the product compliance with the applicable regulations.