

	Product Data Sheet	Issue Date : 01.01.10
Product Name	Futura JarPETI – Type 106	Old Type No. 940405

Recommended Applications

- ▶ Bulk water returnable/refillable Jars.
- ▶ Thick walled Preforms/Jars for potable water packaging.

Product Features

- ▶ Futura JarPETI is a PET based copolymer resin containing IPA as comonomer.
- ▶ Futura JarPETI provides UV absorption cut off up to 355 nm, high clarity, thermal stability, high mechanical strength, excellent anti-scurr properties and hot washable at 60 °C with standard detergent. It offers easy processability in injection molding and stretch-blow-molding.
- ▶ Low fabrication temperature and crystallization rate of Futura JarPETI can provide wider processing window for complex shapes.
- ▶ Futura Futura JarPETI is in full compliance with USFDA regulations and EU norms.
- ▶ Recyclable under SPI code no.1.

Properties

Characteristic	Unit	Type 106	Test Method
		D13	
Intrinsic Viscosity @ 30°C	dL/g	0.87 ± 0.02	FPL-QP-V-20-58
b* Color	CIE Lab	0 max.	FPL-QP-S-20-55-Part-B-XXI
Carboxyl Number	meq/kg	25 max.	FPL-QP-T-20-55-Part-B-VIII
Melting Point	°C	240 ± 2	FPL-QP-DSC-20-55-Part-B-XVIII #
Acetaldehyde	ppm	1.0 max.	FPL-QP-GC-20-55-Part-B-XII
Bulk Density	g/cc	0.85 ± 0.10	FPL-QP-P-20-55-Part-B-XX
Weight of 20 Chips	mg	300 ± 50	FPL-QP-W-20-55-Part-A-I
Moisture (when packed)	wt. %	0.25 max.	FPL-QP-E-20-55-Part-B-VI

Determined using DSC second heating cycle.

Processing Parameters

a) Drying Condition

Granules must be thoroughly dried before processing to limit the occurrence of hydrolytic degradation.

Drying temperature	165 ± 5 °C
Drying time	4- 5 hours
Dew point	- 40 °C
Residual moisture content	≤ 25 ppm

b) Process Temperature (Injection Stretch Blow Molding)**

Barrel Temperature	290 ± 5 °C
Mold Temperature	295 ± 5 °C
Preform Temperature	95 ± 5 °C

** The values quoted above are typical numbers for benchmarking. Individual machine parameters should be determined on a case-by-case depending on the design of the product(s).

Packing

Resin can be supplied in 1000 kg PP jumbo bags with LDPE liner at 20 bags per 20 ft FCL container as required.

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