

	Product Data Sheet	Issue Date : 01.01.10
Product Name	Futura JarPETN - Type 107	Old Type No. 400108

Recommended Applications

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

Product Features

- ▶ Futura JarPETN is a PET based copolymer resin containing naphthalate as comonomer.
- ▶ Futura JarPETN is cost effective substitute for Polycarbonate (PC) jar.
- ▶ Futura JarPETN has enhanced UV protection, high clarity, thermal stability and high mechanical strength.
- ▶ Futura JarPETN has excellent anti-scuff properties.
- ▶ Futura JarPETN is hot washable at 72 °C with appropriate detergent combination.
- ▶ Futura JarPETN offers easy processibility in injection molding and stretch blow molding.
- ▶ Futura JarPETN is in full compliance with USFDA regulations and EU norms.
- ▶ Futura JarPETN is recyclable under SPI code no.1.

Properties

Characteristic	Unit	Type 107	Test Method
		D12	
Intrinsic Viscosity @ 30°C	dL/g	0.82 ± 0.02	FPL-QP-V-20-58
b* Color	CIE Lab	-1 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	234 ± 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	105 ± 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.

Contact Address

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