

	Product Data Sheet	Issue Date : 01.01.10
Product Name	Futura PBN – Type 405	Old Type No. 3001

Recommended Applications

- ▶ Precision engineering thermoplastic parts in electrical and electronic equipments such as:
 - a. Connectors, Switches, etc.,
 - b. Automotive accessories like fuel contact parts (hoses, tanks, etc.,)

Product Features

- ▶ Futura PBN is the NDC (Dimethyl-2,6-Naphthalene Dicarboxylate) based crystalline thermoplastic polyester homopolymer with extremely superior barrier properties.
- ▶ Futura PBN resin is formulated with a combination of special catalysts and additives that provide enhanced thermal resistance and extended life in engineering application.
- ▶ Futura PBN has been positioned in the segment where better mechanical properties, thermal resistance, chemical resistance and extended life in engineering application are of prime importance.

Properties

Characteristic	Unit	Type 405		Test Method
		D7	D12	
Intrinsic Viscosity @ 30°C	dL/g	0.60 ± 0.05	0.85 ± 0.05	FPL-QP-V-20-58
b* Color	CIE Lab	1 Max.	1 Max.	FPL-QP-S-20-55-Part-B-XXI
Melting Point	°C	240 ± 5	240 ± 5	FPL-QP-DSC-20-55-Part-B-XVIII #
Bulk Density	g/cc	0.75 ± 0.10	0.75 ± 0.10	FPL-QP-P-20-55-Part-B-XX
Weight of 20 Chips	mg	300 ± 50	300 ± 50	FPL-QP-W-20-55-Part-A-I
Moisture (when packed)	wt. %	0.25 max.	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	160 ± 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	260 ± 10°C
Mold Temperature	260 ± 10 °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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