

	Product Data Sheet	Issue Date : 01.01.10
Product Name	Futura WeldPET - Type 406	Old Type No. 940407

Recommended Applications

- ▶ Blister / Visibility packaging.
- ▶ Monolayer and multilayer sheets for sealing application.

Product Features

- ▶ Futura WeldPET is a PET based copolymer resin available in crystallised form for convenient drying and processing.
- ▶ Futura WeldPET provides excellent clarity and mechanical properties.
- ▶ Futura WeldPET is a low cost alternative to PETG resin and green alternative to PVC.
- ▶ Futura WeldPET can be processed at lower thermoforming temperature and has wider process window. Regrind chips can be crystallized and used back in extrusion.
- ▶ Thermoformed sheet can be sealed by RF sealing, Heat sealing and Ultrasonic Welding.
- ▶ Futura WeldPET provides superior heat sealing characteristics, lower sealing time and high seal strength.
- ▶ No new capital investment required for sealing and processing while replacing PETG or PVC.
- ▶ Future WeldPET is in full compliance with USFDA regulations and EU norms.
- ▶ Future WeldPET is completely recyclable.

Properties

Characteristic	Unit	Type 406	Test Method
		D11B	
Intrinsic Viscosity @ 30°C	dL/g	0.80 ± 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	225 ± 3	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** (Extrusion)

Zone Temperature	255 ± 5 °C
Die Temperature	255 ± 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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