

	Product Data Sheet	Issue Date : 01.01.10
Product Name	Futura VFlex – Type 206	Old Type No. 500180/6003

Recommended Applications

- ▶ Specialty Filament yarn / Staple fiber applications.

Product Features

- ▶ Futura VFlex is a modified Polytrimethylene terephthalate (PTT) thermoplastic polyester resin.
- ▶ Futura VFlex provides enhanced stain resistance, elastic recovery, resilience, high bulk and soft feel on touch.
- ▶ Conventional spinning and draw lines can be used to process this resin.
- ▶ Unlike PTT, energy consumption is lower for melt extrusion due to lower melting point.
- ▶ Energy cost can be brought down as there is no need to control spinning hall temperature.
- ▶ Spinning speed can be increased, when compared to PTT.
- ▶ Unlike PTT, there is no need to use very low quench air temperature for spun filaments.
- ▶ Unlike PTT, VFlex fiber can be stored at ambient temperature for a prolonged storage time without any adverse effect on yarn quality.
- ▶ VFlex fiber is dyeable at boil to brilliant and in fast shades, deep colors. Dye pick up is better than PTT which will bring saving in dye cost.
- ▶ Intrinsic Viscosity and TiO₂ content can be customized depending on customer's requirement.

Properties

Characteristic	Unit	Type 206		Test Method
		SD-D12	SD-D14	
Intrinsic Viscosity @ 30°C	dL/g	0.85 ± 0.02	0.95 ± 0.02	FPL-QP-V-20-58
TiO ₂ Content	wt. %	0.35 ± 0.03	0.35 ± 0.03	FPL-QP-A-20-55-Part-B-XXIV
b* Color	CIE Lab	5 ± 3	6 ± 3	FPL-QP-S-20-55-Part-B-XXI
Carboxyl Number	meq/kg	25 max.	25 max.	FPL-QP-T-20-55-Part-B-VIII
Melting Point	°C	215 ± 7	215 ± 7	FPL-QP-DSC-20-55-Part-B-XVIII #
Bulk Density	g/cc	0.85 ± 0.10	0.85 ± 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 first heating cycle.

Packing

Resin can be supplied in 900 kg PP Jumbo bags with LDPE liner at 20 bags per 20 ft FCL Container as required.

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