



FLEXIPET – TWIN SCREW EXTRUSION



One line, many options

SML's FlexiPET represents an exceptional twin-screw extruder concept that is easily adaptable to various polymers. This line is able to process virgin and regrind PET, PP and PS – material switches can be managed very quickly. FlexiPET is also versatile regarding the choice of winding systems.

Key Features

- Designed for the highest flexibility to process different kinds of polymers and applications
- Recommanded for the use of PETG and its post industrial flake stream
- Optimised to use dusty material streams
- FlexiPET lines are highly flexible in terms of useable materials and combinations
- The lowest residence time inside the extrusion unit due to conical twin screw extruders
- Reduced energy consumption
- Minimised applied shear stress

Typical thermoform application	+
PET	+
PP	+
PS	+
Optical film	~
PET / PE (recycled in reduced amounts)	++
PET / PE / EVOH (modifications required)	++
GAG sheet	++
Costumised sheet projects	++

BASIC DESIGN INCLUDES

- Material dosing and conveying system for twin screw extruders (2 main + 2 side components)
- Complete extrusion unit with a concical twin screw, backflush filter, melt pump and static conical mixer
- FlexiPET 4 and below: manual die / FlexiPET 5 and up: automatic die
- Roll stack with SPG roll technology,
- temperature control unit, hydraulics and safety devicesThickness gauge
- Edge trim unit with blade knives and an edge trim mill
- ▶ Winder W501
- Automatic control system
- SML BitWise System







The bright variety of SML's technology

PET sheet products are primarily used for food and consumer goods like trays, cups, blisters and lids. In addition, pharmaceutical and medical products have become important areas of application.







CONFIGURATION

	FlexiPET 1	FlexiPET 2	FlexiPET 3	FlexiPET 4	FlexiPET 5	FlexiPET 6	FlexiPET 7	FlexiPET 8
Max. possible net width (mm)	800	800	950	1,150	1,380	1,530	1,730	1,930
150 µm	590	590	700	850	1,020	1,130	1,280	1,420
500 μm	590	930	940	1,350	1,390	1,410	1,420	1,430
1,000 µm	570	910	930	1,130	1,400	1,410	1,420	1,430
1,200 µm	590	800	860	1,040	1,380	1,390	1,410	1,430
1,800 µm	580	650	680	830	1,130	1,040	1,130	1,260

GRANULES



virgin material





bottleflakes



Take advantage of our global leadership in extrusion technology.



ANALYSES DEVELOPMENT PRE-TESTED PERFORMANCE DELIVERY ON TIME SERVICE SUPPORT CUSTOMER SATISFACTION

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