X-COMPOUND
Plastic compounding plants

# Silane Crosslinkable Polyethylene

## Application

Silane based crosslinkable Polyethylene (PEX-B, Sioplas) compounds are used for low voltage and medium voltage power cables as well as for hot water pipes. Two different compounds are required: the Silane grafted polymer, and the catalyst masterbatch. Fortunately, both compounds can be produced by the very same X-Compound Kneader. The changeover between these two compounds requires proper cleaning. The X-Compound Kneader technology is perfectly capable to process any kind of grafted polymer compounds. The cross-linking process is worldwide established.

## Benefits of Continuous Kneaders

- Direct injection of silane into the polymer melt at variable positions
- Long cleaning intervals due to the perfect self-cleaning of the Kneader
- Perfect mixing behavior allows the use of minimum silane quantity
- Reproducible grafting reaction
- Homogeneous controlled temperature for all surfaces in product contact reduces the plate out effect

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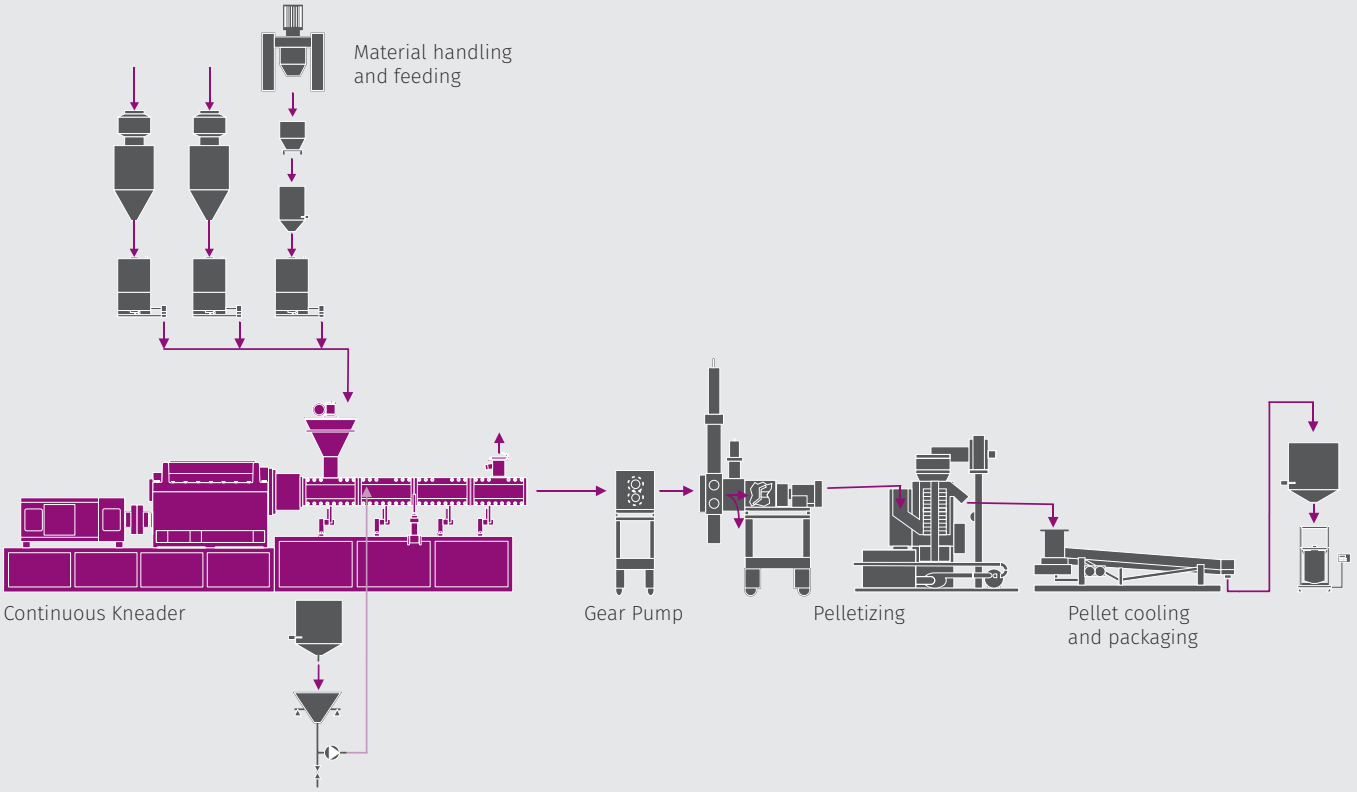
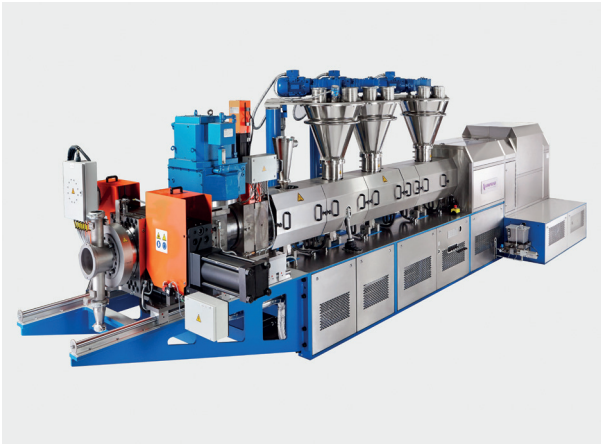
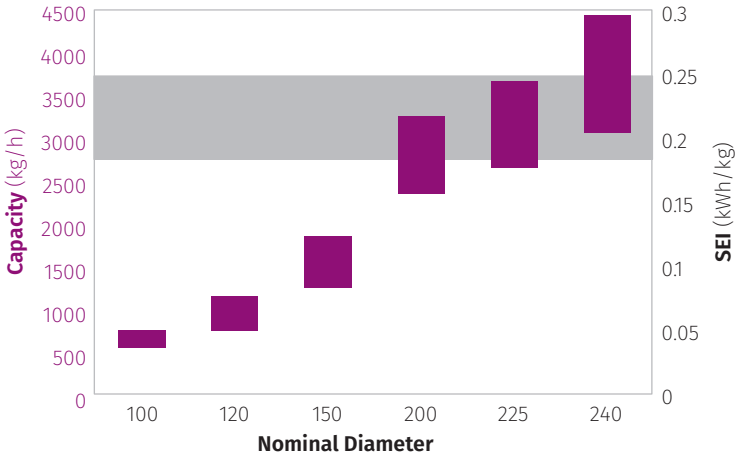
# Flow Sheet




# Kneader Data






| **Kneader** | **Nominal Diameter** | **H** (mm) | **B** (mm) | **L** (mm) | **Throughput** (kg/h) | **SEI** (kWh/kg) |
|---|---|---|---|---|---|---|
| CK 100 | 100 | 2,000 | 750 | 5,240 | 500 – 700 | 0.18 - 0.25 |
| CK 120 | 120 | 2,300 | 800 | 6,200 | 700 – 1,100 | 0.18 - 0.25 |
| CK 150 | 150 | 2,700 | 900 | 7,700 | 1,200 – 1,800 | 0.18 - 0.25 |
| CK 200 | 200 | 3,000 | 1,000 | 9,500 | 2,300 – 3,200 | 0.18 - 0.25 |
| CK 225 | 225 | 3,300 | 1,100 | 10,500 | 2,600 – 3,600 | 0.18 - 0.25 |
| CK 240 | 240 | 3,500 | 1,200 | 11,200 | 3,000 – 4,400 | 0.18 - 0.25 |

The data provided in this document are for information purposes only. Actual dimensions, throughputs and energy inputs are depending e.g. on raw materials and may vary.