

SIKOPLAST

2014 Company Capabilities

Sikoplast Recycling Plants

Sikoplast has specialized in the design and manufacture of all types of thermoplastic recycling lines since 1956. Headquartered in Siegburg, Germany, Sikoplast can supply complete lines, designed for each customer's specific needs, with output capacities ranging from 30 kg/h to 1500 kg /h. With Sikoplast technology, it is possible to re-feed post industrial waste directly back into the extrusion process or to produce a first class regranulate for all forms of thermoplastic waste, including PP,LD/HDPE, PET, PA6, PA6.6, and other thermoplastics. In addition to their specialization in complete recycling lines, Sikoplast can supply lines for post consumer waste, silos, conveyor belts, granulators, and complete PET bottle washing lines.

Complete Plants for Recycling Nonwovens

Sikoplast technology applies to many different fields including nonwovens, synthetic fibers, carpet waste, films, artificial grass and scrap from polymer production. For many years Sikoplast has been the leader in the field of nonwoven recycling. Sikoplast's unique technology allows the manufacturer to re-feed as much of their post production waste stream as possible directly back into the extrusion process without re-pelletizing. This technology allows nonwoven producers a great deal of flexibility in handling all waste streams.

SIKOREX Side Extruder

At the heart of Sikoplast technology is the SIKOREX extruder. The specially designed conical screw and barrel design allows edge trims and fluffy waste to be fed directly back into the extrusion process. The Sikorex interfaces via a single threaded port in the



Sikoplast SIKOREX Side Extruder for direct refeed of edgetrim



SIKOREX Extruder with 2 feeding units, Vacuum Pump and Degassing Port

main process extruder. The same type of extruder can also be used to convert waste into pellets offline. The SIKOREX extruder can be used in a multitude of configurations depending on the customer's preference. The most popular is to couple a SIKOREX extruder to the main extruder and to directly feed edge trim or startup rolls back into the main extruder. Directly feeding your clean post manufacturing waste back into the process is the most efficient method and least damaging to the actual polymer since you are melting it only one additional time. Systems for feeding edge trims are available for 30kg/hr up to 250kg/hr.

The SIKOREX side extruder can also be set up to receive chopped waste from numerous sources by air conveying the waste from a central processing location. This allows for all forms of waste including edge trim, start up rolls and start up waste to be cut and conveyed for refeeding into the main process with the same advantages and efficiencies. Such systems are easily retrofitted to existing production lines with limited downtime.

Lastly, for producers who want to produce pellets, the SIKOREX can be fitted to a re-pelletizing system to produce filtered and cooled pellets for use in the main extrusion process or in other applications. Systems are available up to 1500kg/hr.

Your Recycling Partner

In all cases, Sikoplast has proven designs to meet each producer's unique situations. As a matter of standard, Reifenhauer REICOFIL delivers Sikoplast systems with all their nonwoven extrusion lines. In all, more than 250 systems have been delivered through REICOFIL alone. Let Sikoplast show you why they are the leader in nonwoven recycling technology.

SIKOPLAST

Maschinenbau
Heinrich Koch GmbH
Aulgasse 176
D-53721 Siegburg

Tel: (+49) 2241 / 17 45-0
Fax: (+49) 2241 / 17 45-71

www.sikoplast.de
info@sikoplast.de