PRODUCT RANGE:

GRANULATORS SHREDDERS GUILLOTINES PULVERIZING SYSTEMS WASHING SYSTEMS EXTRUDERS SILOS



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Agglomeration with WiPa Plast Compactor

WiPa Plast Compactor

The process

A feeding system transports shredded plastic to a buffer container. An agitator in the buffer container guarantees permanent filling of the feeding screw and prevents bridging. The feeding screw pre-compacts the plastic to be recycled and feeds it to the Plast Compactor's disc pair. The disc pair consists of a moving rotor disc and a non-rotating stator disc serving as counter element. Kneading and rolling between the discs creates friction heat and plastifies, sinters and compresses the material. The process is 100% PLC controlled and needs only a few operators to feed the machines with material.

Gentle densification

The thermal impact on the material in WiPa Plast Compactor can be hardly compared to the conventional agglomerators, which work in a batch process or standard extruders, because the dwell time of the material in the machine is only a matter of seconds. During this process step the melting point is not reached, because the material is only being transformed into a pasty condition and leaves the discs on its own volition.

The agglomerate

During the process finger size agglomerates are created which are cut to the desired grain size by means of a granulator installed downstream. The size of the agglomerates is determined by the screen installed in the granulator. To cool the material down and avoid dust as well as fines accumulation in the final product, the agglomerate passes through an air sifting unit after the granulator and before conveying to a silo or big bags.

Agglomeration and drying

The WiPa Plast Compactor is mainly used to increase the bulk density of plastic materials. Nevertheless, there are several other fields of application: For example, efficient drying of plastics being processed in a washing line. During the process the material gets heated, moisture evaporates, so that final



Туре РС	_	150	300	500	600	700	850	1400
Main drive kW		15-45	30-75	75-160	110-200	160-315	315-630	400-1000
Bulk Density	g/l							
Throughput rate		kg/h	kg/h	kg/h	kg/h	kg/h	kg/h	kg/h
HDPE	370	80-150	280-350	480-700	750-1200	1150-2000	1700-3000	2500-4000
PE film	350	60-130	200-500	500-800	750-1150	800-1600	1200-2100	2000-3500
PE foam	350	50-120	200-500	400-700	700-1050	750-1400	1000-1650	2000-3200
PP non woven	390	60-120	150-300	400-700	700-1250	750-1400	1050-1850	2000-3100
PS film	460	60-120	150-300	300-700	700-1200	750-1300	1100-1900	2150-3250
EPS	500	70-125	180-300	300-700	700-1200	750-1200	1000-1600	1900-2700
PVC film	600	90-160	250-400	300-700	750-1250	800-1500	1150-1850	2100-3100
PVC foam	500	80-140	250-400	300-700	700-1200	800-1450	1000-1650	1850-2700
PET film	600	90-150	200-300	600-900	750-1350	800-1700	1150-2150	2100-3400
PET fibers	600	85-140	150-300	400-600	750-1100	850-1450	1200-1750	2000-2600
PET foam	550	80-130	100-250	250-600	550-1000	650-1100	1000-1550	1700-2400
PET fleece	600	90-150	200-350	400-700	650-1250	800-1750	1100-2150	1800-2600
PET flakes (bottle)	550	100-160	200-400	400-1000	700-1300	950-1800	1380-2200	2400-3900
PA film	430	80-130	150-300	400-900	650-1250	850-1650	1200-2100	2150-3400
PA 6 / 6.6 fibers	450	80-120	150-250	400-900	650-1050	800-1250	1000-1700	2000-3200
Carpet waste	390	70-120	100-250	350-600	600-1000	800-1200	1000-1600	1900-2900
Synthetic rubber	420	90-140	150-400	250-700	650-1500	800-1850	1100-2200	2100- 3200
Wood plastic	350	90-120	150-350	250-600	650-1350	800-1650	1000-1900	2000-3000