

Household Company in India reduces reject rates thanks to Promix Mixing nozzles

Starting position

- Household Company in India was facing reject rates due to streaks in household containers
- Packaging technologist could be convinced to do a trial with a static mixer

Initial Product and process parameters

Product:	Household container (1 litre)
Polymer:	LLDPE
Machine data:	450 T, Windsor, 80mm screw
Melt temperature:	210 °C
Injection pressure:	150 bar hydraulic



Without static mixer, zero back pressure



with KSM 22/4 mixer, zero back pressure

Results and benefits

- Installed mixer type: KSM 22/4
- Streak issues could be eliminated, reject rate is practically down to zero
- 7 % Masterbatch savings (from 3 % to 2.8 %)
- Back pressure of machine could be reduced from 5 to 0 bar increased screw lifetime

Conclusion

Household Company in India continues to incorporate Promix mixing nozzles across their production facilities.