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press information

World largest Nylon 6 LDR[®] Polymerization in operation in China

Aquafil Engineering GmbH, Berlin has started successfully in March 2004 the world largest single Nylon 6 Polymerization operating according to the Aquafil LDR[®] Process. The plant produces 150 t/d Nylon 6 polymer for textile application. The chips are spherical and have the following typical specs:

relative viscosity:	2,45 ± 0,015
extractable (methanol method):	0,35 %
extractable (water method):	0,25 %
moisture:	0,05 %
NH ₂ :	41 ± 1 meq/kg
dust	< 50 ppm
chips weight 100 pcs.	1,1 g

The composition of extractable typically is:
(measured HPLC)

CPL	0,0309
Dimer	0,0311
Trimer	0,0593
Tetramer	0,0715
Pentamer	0,0640
Hexamer	0,0313
Heptamer	0,0188
Octamer	0,0033

In the Aquafil LDR[®] Polymerization Process the lactamic water is direct recycled to the polymerization, avoiding the depolymerization and distillation. Therefore the raw material consumption is only 1000 kg CPL on 1000 kg chips.

The process is very economic and has the lowest conversion cost which is essential in the high competitive Nylon 6 market.

Nylon 6 polymer plant with a capacity of 150t/d

