



Arkema creates Kynar 705 for commercial spinning equipment

Arkema has developed Kynar 705 resin, a new high flow PVDF homopolymer grade, intended to be used in standard commercial spinning equipments to produce ultra-resistant textiles for water, chemical filtration and architectural applications.

Arkema has collaborated with Lenzing plastics GmbH, a major supplier of different fluoropolymer filaments and fibers to develop Kynar 705 for production of continuous multifilament fibers.

Kynar 705 was designed with the objectives of meeting the high fluidity requirements of multifilament extrusion while providing high tenacity, resistance to abrasion and aggressive chemicals environment -even in high temperature-, high whiteness and low overall gel content. Tests reported that Kynar 705 fibers are 25% more tenacious than other fluoropolymers fibers.

These fibers can be woven into cloth products used for filtration media in water and chemical applications, fabrics backing for PVDF lines, or roofs textiles. Kynar 705 is also well suited to produce mono and multicomponents fibers "Spunbond fabrics" used in the same applications. Other potential applications for Kynar 705 woven and nonwoven textiles include air and gas filtration, battery separators and chemical clean up. Due to its low friction and low surface tension, Kynar 705 woven filter cloth is "easy to clean" and provides up to 10 times longer lifetime than conventional non-fluoro filter media.

Like other Kynar PVDF fluoropolymers, this new grade is very resistant to chemical corrosion (acids, halogens and solvents,) abrasion, UV and thermal resistance (up to 150°C). Its excellent UV resistance and weatherability makes it an excellent candidate for outdoor applications.

Due to its low viscosity, Kynar 705 can also be used in the production of color master batches, injection molding of ultra-thin parts, and as a rheological modifier of fluoropolymers.

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