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Flexible tubing production and Technology

Netafim Ltd. produces and markets irrigation equipment and complementary products (www.netafim.com),

In the recent years Netafim is working on the development of flexible tubes utilizing different technologies, from woven fabrics to laid scrims, and others.

Scrim has two separate meanings in terms of fabric. In each case, it refers to different technology. It can be woven material, but also can be made from continuous filament yarn in an open mesh construction bonded together.

Laid scrim is chemically bonded non-woven yarns directionally laid creating the needed scrim structure, enhancing the scrim with unique characteristics.

Netafim identified the strength of utilizing high-tenacity yarns, or extruded tapes to create innovative, cost-effective materials that offer superior hydraulic performance with less bulk and weight. Netafim owns IP on this.

For this purpose, Netafim had developed an engineered technical composite material that meets the required product specifications. This engineered composite, is later folded overlapped, and seamed to create pipe form.

Netafim had been running intensive trials to validate the concept of laid scrim, as well as composite fabrics which is under intensive production today, for hydraulic pipes, developed mathematical model for designing the composite, and cooperated with partners for prototyping the first samples.

Intensive hydraulic trials under extreme conditions are being implied on multiple technologies of composites, to validate whether it withstands the performance required by Netafim customers globally.

Netafim continues its innovation in order to continue leading the irrigation market with new products and technologies.

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