



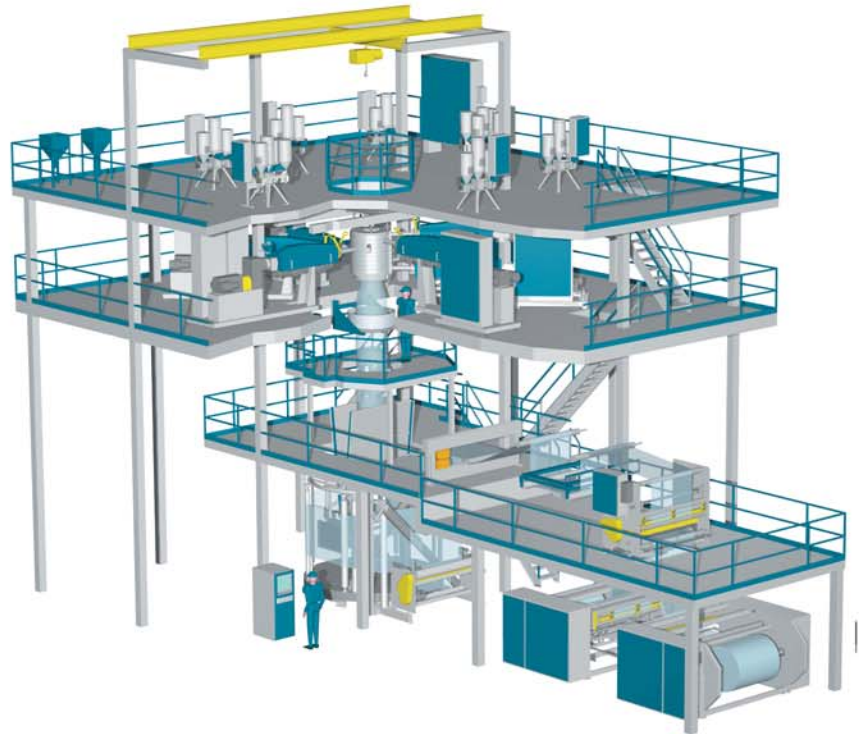
Brampton Engineering

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AquaFrost is a water-quenched multilayer blown film system that uses water as a cooling medium plus all the Brampton Engineering components of a conventional blown film line. This system produces

- clear, amorphous film not seen before in multilayer blown film
- film which allows deep draw thermoforming of vacuum packs
- film with balanced orientation - approximately equal shrinkage in both directions, reducing the distortion in the end product.

The AquaFrost System

- delivers superior output rates. Barrier film at rates of 1.5kg/hr/mm of die diameter (26lbs/hr/inch of die circumference) which is competitive with cast film
- reduces film costs by using less expensive materials
- produces large flat rolls by using an oscillating haul-off to achieve gauge randomization—an advantage over cast film lines
- provides blow up ratios of up to 2.5:1 without loss of rate.

Method of Operation

Molten polymer inflates to the desired layflat as it exits the die. The polymer freezes as it passes down through the AquaRing. The higher heat transfer rate of the AquaFrost process minimizes the time the melt spends in the critical crystal-growth temperature range. The film then passes through the collapsing frame and then to a vertical oscillating haul-off through the nip and to the winder(s).

AquaFrost®

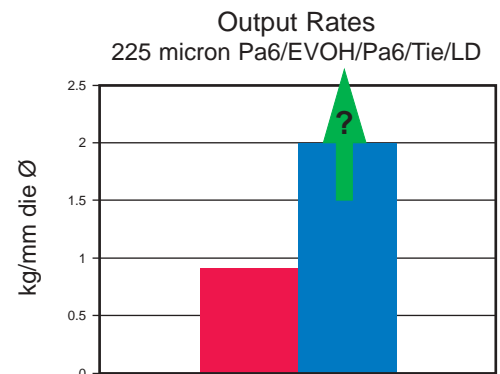
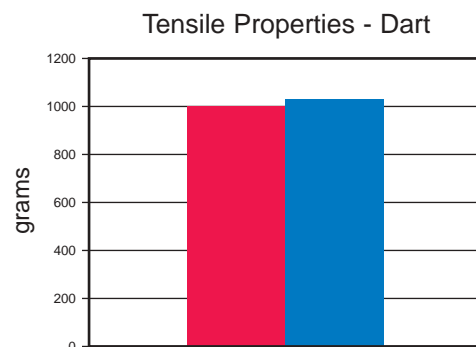
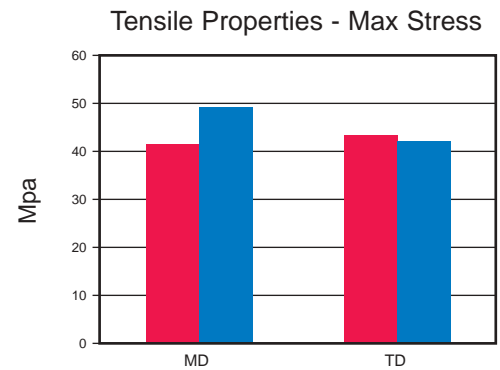
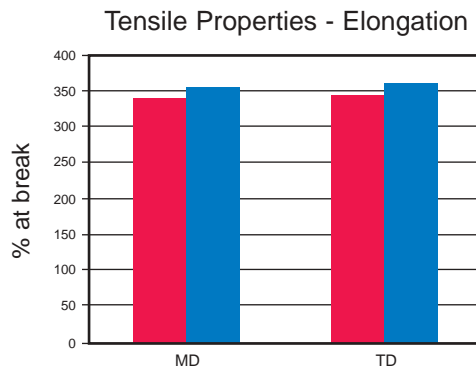
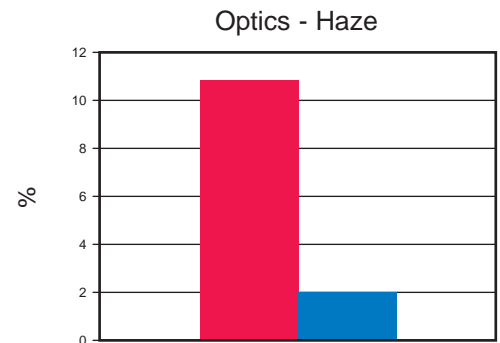
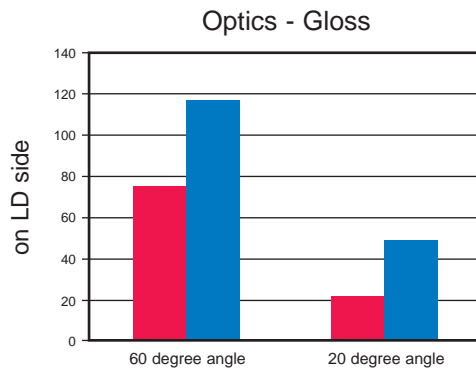


Brampton Engineering

Quality: Brampton Engineering Inc. World Headquarters continues to meet the ISO 9001 standard which covers design, manufacture, assembly, installation and service of our products.

Comparison of Conventional Air-Cooled Film to AquaFrost Film 125 micron Pa6/EVOH/Pa6/Tie/LDPE

Blown Film AquaFrost



Trials

The five-layer AquaFrost Line at Brampton Engineering Blown Film Technology Center is available for trials.

Specifications are subject to change without notice.