



international plastics design competition



Spark™ Stacking Series Chair



Molder: Bemis Manufacturing Company

Moldmaker: Delta Mold

Material Supplier: Matrix Group

Designer: Don Chadwick

OEM: Knoll



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Product Description

Knoll introduces a series of stacking side and lounge chairs by award winning designer Don Chadwick. Spark™ brings people together to spark conversation, ideas and imagination.

Don Chadwick's design has a unique personality, lightness of scale and bright pops of color that provide a spark of energy, excitement and color to a space and to the work being done in it. At affordable prices, Spark offers value as well as visual interest.

The four leg side chair and sled base lounge chair use innovative molding processes to deliver light, sturdy, highly cleanable, indoor/outdoor chairs ideal for corporate, healthcare, education, retail, restaurant and hospitality environments.

The chairs are easy to pick up and move around, and most importantly, comfortable. The stacking capability and upholstered seat option for both side and lounge and the ganging device for the side chair allow Spark to fill multi-functional seating needs in the office, including those for guest, conference, lounge, training, café and team activity areas.

Why is the product innovative?

The innovative processes used to make Spark are unique in the office furniture segment.

The process of co-injection molding for the Spark chairs allows for the use of two materials - a prime grade, virgin, glass-filled polypropylene copolymer with liquid color for the outer layer and a glass-filled polypropylene copolymer in the core. Since the core material is completely encapsulated by the outer layer, it does not need to be prime grade, virgin material, which allows for the use of recycled material in the core.

The other innovative process that goes into the Spark chairs is the use of a small amount of foaming agent in the core material. As the plastic cools, the foaming agent expands, negating the plastic's tendency to shrink and form voids. This reduces sink marks, voids and shrinkage in the thick cross sections of the chairs. The co-injection process allows for the complete encapsulation of the foaming agent in the core of the part, eliminating swirling on the surface.