Clarity® PHL 4150 (I)

Type of Adhesive	Hot Melt Adhesive

Product Benefits
- light colour, transparent and nearly odourless
- excellent heat stability
- excellent machinability even at low temperatures
- excellent hot tack
- good bonding strength even on cold or warm containers
- suitable for PET-bottles with strong carbonated beverage

Typical Applications

A high performance, pressure sensitive hot melt designed for hard-to-bond substrates and demanding labelling applications, such as cold or wet containers. It has been developed for labelling of glass, plastic or metal containers. Especially suitable for labelling of PET-bottles with strong carbonated beverage.

Suitable substrates

Labelling of glass, steel- and plastic containers (PVC, PE, PET, PP) with PP/PE-labels and high quality paper labels

Typical Properties

Property	Value
Colour	Transparent, light yellow
Film	Soft-elastic, surface tacky
Viscosity	Brookfield: RV, Sp 21; ASTM D 3236-88 approx. 1690 mPa*s (120°C) approx. 740 mPa*s (140°C) approx. 540 mPa*s (150°C)
Softening point	approx. 71 °C R&B - ASTM E28-99
Density	approx. 0.97 g/cm³ (20 °C)
Application temperature	130°C - 160°C When plastic-labels are used, the working temperature should be between 130°C and 140°C, to avoid a move of the foil.
Shelf life	24 months

Application Instructions	Apply by nozzle; roller; wheel,- disc-systems.
	Suitable for equipment from Krones (control, Canmatic), Langguth, KHS, Etitec, B&H, Trine, Alfaquattrorollo, CMS Omme.
	It runs well on magazine and roll-fed label stocks and shows excellent performance on high speed lines.
	It is important to ensure that the desired level of adhesion is obtained on the necessary substrates, including long-term tests.
Cleaning Instructions	Please contact your local Sales Office for available cleaning solutions.
Typical Packaging	Please contact your local Sales Office for available packaging options.
Storage Conditions	In original sealed packaging protected from sun, dust, moisture and high temperatures. The adhesive performance is not affected by a slight oily, sticky surface of the ZeroPack format.
Disposal Advice	Please refer to the MSDS for disposal instructions.
Safety Advice	Please refer to the MSDS for safety advice.

Our Focus is Clear. Perfecting Adhesives.

H.B. Fuller

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