



Garden Street, Ramsbottom
Bury, Lancashire BL0 9BQ
Tel: 01706-828208
Fax: 01706-828820
enquiries@polymers.co.uk
www.polymers.co.uk

**Manufacturers of Water Based Adhesives
Coatings and Polymer Systems**

TECHNICAL DATA

OPRODUCT CODE : **FP 2034**
ISSUED : **23.01.17**
ISSUE NUMBER : **01**

INTRODUCTION

FP 2034 is an aqueous dispersion of a plasticiser free polyvinylidene (PVDC) copolymer with anti-block and slip additives.

The dried coating will deliver a high barrier to moisture and gases, as well as being a heat sealable medium for paper and plastic films, with a low heat seal threshold of 110degC.

Pvdc coatings require a suitable primer (FP2027) if they are being applied to polypropylene films – FPP can provide details on this if needed.

PROPERTIES

Total Solids Content, %	54 - 58%
Viscosity (ready for use)	20 c poise
pH	2.0 – 3.0

When you adopt a minimum coating weight of 5gsm dry you can expect to achieve the following MVTR level of **16grms/m2/day**, after the pvdc coating is fully crystallised when it is subjected to tropical storage conditions of 38degC and 90% RH.

If you require a lower MVTR level, there is an alternative grade available FP2030.

The MVTR barrier is directly proportional to the level of pvdc coating weight.

FP 2034 requires specialist equipment to apply the coating to the substrate. The preferred method is by air knife or reverse gravure.

The coating machine must have adequate drying capacity to achieve good film formation of the coating. Drying temperatures of 90 degC and above are normally adopted by converters.



Garden Street, Ramsbottom
Bury, Lancashire BL0 9BQ
Tel: 01706-828208
Fax: 01706-828820
enquiries@polymers.co.uk
www.polymers.co.uk

**Manufacturers of Water Based Adhesives
Coatings and Polymer Systems**

COATING WEIGHT

The moisture barrier of the dried film is directly proportional to the coating weight. The customer therefore needs to determine what the optimum coating weight is for their particular pack with press trials.

FOOD CONTACT

The dry film components of FP 2034 meet the necessary direct food contact regulations for food packaging.

Further details can be made available on request.

STORAGE AND HANDLING

IMPORTANT - FP 2034 must be gently mixed 20minutes prior to use and during use to ensure the slip and anti-block additives remain homogeneous. The product is usually supplied in 1 tonne IBC's and it is essential the stirrer blade is located close to the bottom of the IBC for this operation.

FP 2034 must be stored in sealed containers and kept at temperatures between 5 and 30^o C.

Do not store containers in direct sunlight.

IMPORTANT NOTE FOR CONVERSION -

The converted reels must be stored in a controlled warehouse.

Storing the reels at a temperature of 40degC for 2 days will allow the pvdc to fully crystallise and provide the optimum barrier properties. Lower temperatures will require longer periods of storage for full crystallisation to occur.

SAFETY DATA

Appropriate personal protective equipment must be worn when handling FP 2034. Full details are given in the appropriate Material Safety Data Sheet.

The above information is given in good faith but without liability