

PLUSS[®]



Pluss Polymers is an offshoot of Manas, established to develop and market new technologies and products developed inhouse. Pluss Polymers was incorporated in 1993 to commercialise the technology for grafted modified polymers and alloys and blends. Backed by competent technical staff, laboratory facilities, a good library and technical database with a retrievable wealth of information marketed the OPTIM[®] brand of grafted polymers for the first time in India in 1996.

OPTIM[®] coupling agents and compatibilisers allow plastics manufacturers of world class quality products to *OPTIMise* their compound properties. The ADNYL[®] range of nylon alloys provide the user with extra tough nylon for increased strength.

Profiles and other rigid and flexible containers for thermal energy storage have also been introduced in India for the first time by Pluss Polymers.

PAPYRUS

Twist Wrap Film Compound

PLUSS[®]

TECHNICAL DATA SHEET

Product	T 09
Description	: T 09 is an HDPE based compound to produce co-extruded HDPE based twist wrap film.
Appearance	: Free flowing white granules / pellets.
Properties	T 09
Density (g/ml)	1.0
MFI @ 190°C/2.16 kg (g/10min)	1.29

Applications

The compound is used as a middle layer in a three layer film. The film has properties like water resistance, durability, excellent tear initiation & propagation resistance, folding & flexing endurance, mildew & termite resistance. It has paper like characteristics such as dead fold properties. It can be easily printed with normal HDPE films. Additionally, it has unique properties of high tensile and tear strength and easy to handle during various conversion processes and applications.

The film has ability to withstand repeated folding/unfolding and in some cases mishandling. It is suitable for cold twist wrapping.

Film Production

Minimum three-layer coextrusion cast or blown equipment is required for producing the film. A two-layer film can also be made for some applications, but will have tendency to curl due to dissimilar surfaces. The film has good to excellent contact clarity.

In blown film, a blow up ratio of four or higher is desirable, for good stiffness in the product. Corona treatment on the surface is essential for good print adhesion.

Proportion of the compound in the film will determine the level of dead fold properties obtained.

Processing Conditions

Temperatures in extruders for different layers are so adjusted that melt viscosities of the different layers match for good bubble stability. The extruders should be free of contaminants and gels. T 09 ingredients are polymeric materials so the screw and barrel life remains unaffected.

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The information given here is meant as a guide to determining suitability of our products for the stated applications. The products are intended for use in industrial applications. The users should test the materials before use and satisfy themselves in this regard. With regard to contents and suitability in the desired application. We guarantee that our products will meet our written specifications. Nothing herein shall constitute any other warranty expressed or implied. Recommendation herein may not be construed as freedom to infringe/operate under any third party patents. In the event of a proven claim, our liability is limited only to replacement of our material and in no case shall we be liable for special, incidental or consequential damages arising out of usage of our material.

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