

Ethylene-Vinyl Acetate Copolymer

Welding

BASF AG: Lupolen V

Since they are thermoplastic, Lupolen and Lucalen moldings and film can be welded together by the application of heat and pressure. Examples of the techniques that can be adopted are vibration, ultrasonic, friction, hot-gas and hot plate welding.

Film can be heat-sealed by slit-seal, thermal contact and thermal impulse techniques. The main factors that govern the quality of the seam are temperature, pressure and time.

Reference: *Lupolen, Lucalen Product Line, Properties, Processing*, supplier design guide (B 581 e/(8127) 10.91) - BASF Aktiengesellschaft, 1991.

Mechanical Fastening

BASF AG: Lupolen V

If the necessary holes are drilled, Lupolen parts can be joined together by self-tapping screws. If the connections have to be loosened very often, preference should be given to threaded metal inserts, which can be firmly bonded to the Lupolen part by various means, e.g. encapsulation by molding, countersinking by force or ultrasonic techniques.

By virtue of their flexibility, Lupolen and Lucalen mouldings can be firmly joined together by means of projections, beads, or hooks that fit into corresponding recesses. The size of the retaining angle, which may vary between 15 and 90°, determines whether the connections are permanent or can be easily loosened.

Reference: *Lupolen, Lucalen Product Line, Properties, Processing*, supplier design guide (B 581 e/(8127) 10.91) - BASF Aktiengesellschaft, 1991.