For a variety of reasons (cost, comfort, durability, etc.), personal protective equipment (PPE) for pesticide handlers is constructed from one of eight materials:

- butyl rubber
- nitrile rubber
- natural rubber
- neoprene
- polyethylene
- polyvinyl chloride
- viton
- barrier laminate.

No single material is “absolutely best” for protecting a pesticide handler from pesticides. Instead, each PPE material is satisfactory under some circumstance— and may be less satisfactory under some other circumstance. Pesticide product formulation greatly influences PPE suitability.

Scientific tests of PPE materials indicate that every material’s ability to protect a handler from a pesticide product is mainly determined by two things:

1) the type of solvent used in the pesticide product, and

2) the amount of time the PPE article is exposed to the solvent in the formulated pesticide.

This means, when the solvent in the pesticide formulation gets through the PPE barrier, the wearer is no longer protected.

Every EPA-registered pesticide product label contains statements identifying the PPE necessary for safe handling of the product. On some pesticide labels, the label mentions an EPA-developed code letter (A-H) for PPE. Each code letter indicates a chemical resistance category. These code letters can help a user choose suitable PPE for a particular product.

To help make sense of their PPE codes, the EPA organized the codes in a chart. Their chart, with some clarifying comments, is on the other side of this page.
# EPA Chemical Resistance Category Selection Chart

For use when the Personal Protective Equipment (PPE) description section on a pesticide label mentions a chemical resistance category code letter.

## Chemical Resistance Category Code Letter (Mentioned on the pesticide label)

<table>
<thead>
<tr>
<th>Chemical Resistance Category Code Letter</th>
<th>Barrier Laminate 14 mils</th>
<th>Butyl Rubber 14 mils</th>
<th>Nitrile Rubber 14 mils</th>
<th>Neoprene Rubber 14 mils</th>
<th>Natural Rubber 14 mils</th>
<th>Polyethylene</th>
<th>Polyvinyl Chloride (PVC) 14 mils</th>
<th>Viton 14 mils</th>
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<tbody>
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<td></td>
</tr>
</tbody>
</table>

## Definitions

**High:** PPE made of this material can be expected to withstand **one or more days** of contact with that particular pesticide product if the PPE article is properly maintained. Throughout the workday, rinse off pesticide accumulations at rest breaks and inspect for holes, tears, or punctures. Thoroughly clean or replace the PPE article at end of each day’s work.

**Medium:** PPE made of this material can be expected to withstand **one or two hours** of contact with that particular pesticide product if the PPE article is regularly rinsed with clean water and kept free of holes, tears or punctures.

**Low:** PPE made of this material can be expected to withstand **approximately ten minutes** of contact with that particular pesticide product. The wearer should rinse, remove and discard such PPE articles after this amount of use.

**None:** This material has **no resistance** to chemical penetration by pesticide products whose labels mention this resistance category code letter. **Do not wear** PPE made of this material when handling pesticides whose labels mention this resistance category code letter.

Archival copy: for current recommendations see http://edis.ifas.ufl.edu or your local extension office.