

# Technical Bulletin

## ElasTechs 2740

### DESCRIPTION

**ElasTechs 2740** is a formulated water dispersible polyester resin in granular form. It is a versatile product suitable for use as a staple yarn sizing binder and as a sizing agent for polyester filament yarn.

As a sizing binder for polyester and cotton blended yarns, the product may be combined with starch, starch derivatives, other synthetic polymers and lubricants. For the sizing of polyester filament yarns, the product is used alone.

### BENEFITS

**ElasTechs 2740** provides the following benefits:

- Easy to disperse in water
- Exhibits excellent adhesion to polyester
- Reduces yarn hairiness
- Reduces add-on
- Improves weaving performance
- Compatible with most size additives

### TYPICAL PROPERTIES

Color	Beige
Appearance	Granules
Odor	Mild
pH	About 7.0
Solubility	Complete

### PREPARATION

As a sizing binder - the product should be added to cold starting water with good agitation and cooked as normal for starch containing or polyvinyl alcohol containing recipes.

As a polyester filament sizing agent - the product must be first dispersed in water at concentration of 10 – 25% with good agitation and cooked at temperature range of 90 – 95° C until completely dispersed. Once dispersed, the liquor should be cooled down to application temperature.

### APPLICATION

As a staple yarn sizing binder - the product is normally dosed at 5 – 25% on the weight of starch or starch derivative – depending upon the degree of difficulty of the weave.

For texturized polyester filament yarn - the size is applied on the slasher at temperature of 35 – 40° C. Solids concentration is dependent upon the denier and degree of weave difficulty. The typically applied solids range from 8 – 12% with an add on range of 3.5 – 5.5%.

### REMOVAL

When used as a staple yarn sizing binder, the product can be successfully removed with the normal desize procedure for starch or polyvinyl alcohol containing recipes. The product is somewhat sensitive to highly concentrated caustic baths – consequently these should be avoided. Mild alkali such as soda ash presents no problem for removal.

For sized polyester filament yarns, the product should be removed with hot water and good counter flow. The addition of 1g/l soda ash and 0.5 g/l nonionic detergent will improve and speed the removal.

### STORAGE

**ElasTechs 2740** should be stored in a cool, dry and well-ventilated area.

### PACKAGING

**ElasTechs 2740** is available in 25 kgs bags.

Date Established: 12/10/10  
Date Revised:

The information contained in this bulletin is to the best of our knowledge, true and accurate. This information is offered as a general guide to facilitate experimentation as to its suitability to the local plant environment, but neither an express or implied warranty of merchantability of the above mentioned product for particular use. American Textile, LLC make no guarantee of results and assume no obligation or liability whatsoever in connection with this information. This information is neither a license to operate under, nor is it intended to suggest infringement of any patent rights.