

More Specialized Rubber Applications Put Greater Focus on Compound Development and Testing

ALTTRAN connects custom rubber compounding, color compound mixing and laboratory evaluation to support application-specific formulations

HUDSON, OH, UNITED STATES, August 3, 2026 /EINPresswire.com/ -- As rubber components are expected to meet increasingly specific combinations of performance, processing and appearance requirements, compound development is becoming a more technically demanding part of manufacturing. ALTTRAN supports this work by bringing custom [rubber compounding](#), production [compound mixing](#) and in-house laboratory testing together at its Hudson, Ohio operation.

A rubber formulation must balance multiple variables, including raw materials, processing conditions and finished-product specifications. Changes made to improve one characteristic—such as durability, flexibility, color, chemical resistance or processability—can affect other properties of the compound. This makes testing and production knowledge important throughout the development process, not only after a formula has been completed.

ALTTRAN develops and mixes custom black and color rubber compounds for manufacturers across a variety of rubber processing applications. Its color rubber mixing operation uses

The logo for ALT, consisting of the letters "ALT" in a bold, orange, sans-serif font.

dedicated processing areas and a controlled formulation, testing and mixing process to produce clean, consistent compounds that meet defined specifications.

Connecting the Laboratory with Production

Through ALTTRAN Technical Services, the company also provides [rubber compound testing](#), formulation development, raw material validation and performance evaluation. Laboratory technicians assess rubber formulations before production using analytical and physical testing methods selected for the material and its intended application.

Testing can evaluate factors such as cure behavior, viscosity, hardness, tensile and tear strength, thermal characteristics, abrasion resistance, color and material composition. ALTTRAN can also simulate molding and extrusion conditions to examine how a compound may behave during processing.

Connecting the rubber testing lab with ALTTRAN's mixing operation allows laboratory findings and production requirements to be considered as part of the same development process. The company can support work beginning with an existing formula, a new performance requirement, an alternative raw material or a processing concern, then help move the resulting compound from laboratory evaluation into production-scale mixing.

This approach is particularly relevant for colored compounds, where pigment selection, dispersion, processing and contamination control can influence the appearance and consistency of the finished material. ALTTRAN supports custom color matching and compound development through planning, testing and controlled mixing.

Supporting Application-Specific Formulations

ALTTRAN works with manufacturers developing new rubber products as well as those reviewing existing compounds. Its capabilities can support material selection, formulation adjustments, physical-property verification, process troubleshooting and production consistency.

The company also accommodates research, testing and prototype programs that require customized compounds and repeatable material performance. These capabilities give development teams access to formulation, mixing and testing support before advancing a material into broader production.

Manufacturers seeking support with rubber compounding, compound mixing, color rubber formulations or rubber compound testing can contact ALTTRAN at (330) 650-2223 or orders@alttran.com.

About ALTTRAN

ALTTRAN specializes in clean and consistent custom rubber mixing for color rubber and black rubber compounds in a variety of rubber processing applications. Based in Hudson, Ohio, the company serves manufacturers across diverse industries with rubber mixing, formulation development and ALTTRAN Technical Services lab testing. ALTTRAN focuses on building relationships that provide answers within the polymer mixing and molding industry.

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