

Manufacturer Improves PVC Power Washer Hose with Custom Formulation

Saved Time and Money While Improving Quality



Today's top manufacturers know they cannot afford to rest on previous successes. To edge out competitors they have to scrutinize each decision in the manufacturing process and continually explore ways to save time and money and improve product line efficiencies.

A manufacturer of pressure washers and power equipment sought an alternative to polyvinyl chloride (PVC) for one of its product components, needing a more consistent processing PVC for the inner lining of a pressure washer hose. The customer hoped to find a product with greater processing consistency that would not greatly affect cost.

Nexeo Plastics proposed using a custom polyolefin blend to offset the PVC the customer was using. To determine the optimal blend, a Nexeo Plastics technical expert visited the customer's site to run trials and test numerous blend variations for flexibility and strength, with the customer ultimately choosing a suitable blend for the application that processed more consistently without sacrificing production rates.

With the new blend undergoing thorough cycle testing to qualify, the manufacturer was then able to go to production with a more consistent processing material, improving production time and decreasing material costs. The new material proved to be lighter and more flexible than the PVC, ultimately decreasing the variability of the hoses coming off the line and reducing the manufacturer's scrap rate. The material is also considered to be more environmentally friendly with greater stability and recyclability.

Discover how Nexeo Plastics can help you overcome your material, process, and application challenges.

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PROJECT AT-A-GLANCE

Recorded Benefits

- Saved time and money compared to using PVC
- Improved quality and decreased scrap rates
- Improved flexibility and lowered weight of the hose
- Eliminated use of environmentally unfavorable PVC
- No biocides or antimicrobials contained within the nonplasticized polyolefin blend

Challenge

A power equipment manufacturer needed a better processing material solution used to make a power washer hose lining.

Solution

Nexeo Plastics proposed a custom polyolefin blend and assisted with testing to land on the ideal blend.

Result

The new blend saved time and expenses, increased product quality, improved batch consistency and eliminated PVC altogether.



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