

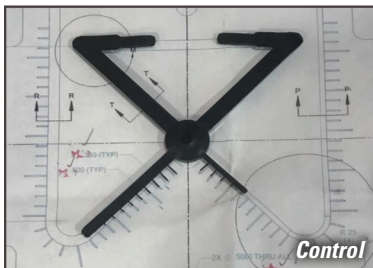
EPOLENE® polymers provide a smart choice for enhancing mold flow performance while maintain physical property targets in EPDM compounds versus increasing oil loading

In EPDM compounding applications, oils are frequently used as a processing aid to improve mixing and processability. Independent laboratory studies have recently shown that the addition of EPOLENE® low molecular weight polymers can enhance mold fill performance and processability without loss of physical properties. The data generated by these studies show that just a 5 phr of EPOLENE® N-14 added to the compounding:

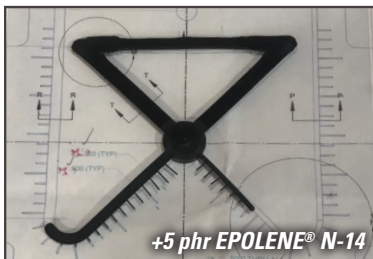
- ▶ **Enhanced mold fill performance** over control, comparable to increased oil loading of 10 phr
- ▶ **Bolstered overall physical properties** of the molded article vs. increasing oil levels
- ▶ **Improved scorch time** of the compounds vs control

EPOLENE® N-14 performance vs increased oil in EPDM Rubber

Mold Fill Performance



Control formulation contains 25 phr oil and exhibits poor mold fill performance

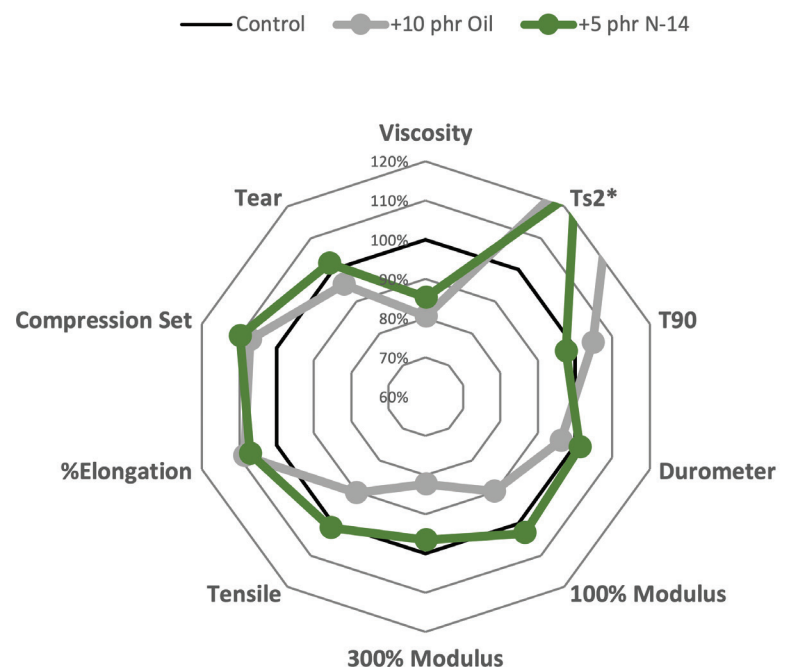


Addition of +5 phr N-14 provides significant benefit in mold fill performance while maintaining physicals



Addition of +10 phr oil improves mold fill performance as well, but at a cost to physical properties

Compound Properties



Notes: Control EPDM formulation contains 25 phr oil as a baseline. Subsequent tests shown include further additions of 5 phr N-14 and 10 phr oil (for a total of 35 phr oil) to the control. "phr" stands for parts per hundred rubber.

*Ts2 values exceeded 120% of control. +10 phr oil provided 143% improvement and +5 phr N-14 generated 125% improvement.

Contact us today at 1.800.545.9577 or visit www.westlake.com to learn more about our products and capabilities.



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Publication Date November 2019.