



Miniature circuit breaker housings/enclosures

Reduced environmental impact - improved performance

As they move away from halogenated thermoplastic and thermoset materials, producers of low voltage switchgear (LVSG) are turning to more environmentally friendly solutions. Manufacturers of miniature circuit breaker enclosures are now using halogen-free flame retardant Polyamide 6 (PA6).

However, whilst PA6 is able to deliver the required performance, the power distribution industry continues to look for significant reductions in systems costs: through productivity gains as well as improved electrical part performance.

As a leading supplier of thermoplastic resins to most if not all major European producers for over 20 years, DSM has developed Akulon® Ultraflow®, an easy to process high-flow halogen free flame-retarded PA6. Developed with DSM's proprietary technology, Akulon Ultraflow offers significant benefits including improved flow as well as fast cycling, helping to deliver lower system costs.

Productivity gains and enhanced electrical properties

Akulon Ultraflow offers up to 80% improved flow and up to a 25% reduction in injection molding cycle times with no significant effect on mechanical properties compared to standard PA6 grades.

Specific grades, Akulon Ultraflow K-FKMG5, K-FKGV4 and K-FKGV6 – were developed specifically with MCB enclosures in mind. Their extreme flow characteristics, in addition to making lower process temperatures possible, facilitate shorter cooling times, leading to lower cost per MCB enclosure.



Other benefits include the material's suitability for high quality printing and laser marking, excellent electrical and mechanical endurance and excellent short-circuit properties, including residual dielectric strength.

Eco+ solution

Halogen and red phosphorous free Akulon Ultraflow used for Miniature Circuit Breaker (MCB) enclosures can be processed faster and at lower temperatures, delivering reduced environmental impact, lower energy costs as well as improved electrical performance.



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