



High-performance halogen-free flame-resistant products

Flame-resistant, halogen-free Lifoflex TPE compounds from Müller Plastics have been available for several years and are now well-established in the market. The UL94 test method gives these flame-resistant compounds a VO flammability classification at a minimum sample thickness of three millimeters. Ongoing development work has now enabled marketing of the new standard range of flame-resistant Lifoflex UV FLAM 600 products. Also halogen-free, these compounds possess significantly improved processing properties in injection-molding and extrusion applications.

Another range of standard products will shortly be launched under the name Lifoflex UV FLAM 700. The UL94 test method gives this range a VO flammability classification at a minimum sample thickness of only 1.6 millimeters. They are suitable for injection-molding and extrusion work where hardness of between 50 and 90 Shore A is specified.

Müller Plastics has reached another milestone with its new, halogen-free, flame-resistant products for the railroad industry. In DIN 5510-2:2009-05 fire precaution tests for rolling stock, a 500 mm x 10 mm x 6 mm profile received the following classifications: flammability S3, drip formation ST2, smoke formation SR2. The DIN EN ISO 5659-2 fume toxicity test yielded an FED classification of 0.14 (max. permissible: = 1) for the material (tzul = 30 min).

Products possessing both electrical conductivity and flame-resistance could be very interesting indeed, because it is quite conceivable that this combination would be ideal for certain electrical products. Müller Plastics has already developed products with these properties because, in addition to its standard ranges, it also aims to offer products that are ideal for special applications.