ABSTRACT

The invention relates to an impact-strength-modified polymethacrylate molding compound characterized by a Vicat softening temperature per ISO 306 (B 50) of at least 90°C, a notched impact strength (Charpy) per ISO 179/1eA of at least 3.0 kJ/m^2 at 23°C and a melt volume-flow rate MVR (230°C/3.8 kg) per ISO 1133 of at least 11 cm^3/10 min, which is obtainable by mixing, in the melt, a) 80 to 98 wt% of an impact-strength-modified polymethacrylate molding compound with b) 20 to 2 wt% of a low molecular weight polymethacrylate molding compound, the impact-resistant molding compound comprising 70 to 99 wt% of a matrix of 80 to 100 wt% of radical-polymerized methyl methacrylate units and if necessary 0 to 20 wt% of further comonomers that can undergo radical polymerization, and containing 1 to 30 wt% of an impact-strength modifier, and the low molecular weight polymethacrylate molding compound comprising 80 to 100 wt% of radical-polymerized methyl methacrylate units and 0 to 20 wt% of further comonomers that can undergo radical polymerization, and having a viscosity number ($\eta_{sp/c}$) of 25 to 35 ml/g as measured in chloroform per ISO 1628 Part 6.