Alkylmethyl & Alkylaryl Silicones

• In general, the introduction of alkyl or aromatic substituents – the latter not attached directly onto silicon – produces polysiloxanes that are much more compatible with organics. This is a highly desirable and critical modification that affords introduction of silicone characteristics into organic environments.

• Good thermal stability and the organo-compatibility of linear alkylmethylsiloxanes make these polymers suitable to formulate paintable mold release agents for metals, plastics and rubbers, where no unusual or extraordinary cleaning of the molded part is required to carry out subsequent surface finishing/bonding operations.

• Olefin-modified siloxanes have been reported to have been used as “bridging agents,” facilitating the stabilization of silicone-based compositions and mineral oils.

Example Applications/Benefits

Fluids
• Formulation of paintable industrial mold release agents for rubber, plastic and metals. No corrosion or mold build-up residue.
• Formulation of lubricants. Rubber-to-rubber.

Waxes
• Provide enhanced lubricity, water repellency and detackification in personal care formulations. Non-occlusive films.
• Provide gloss enhancement, durability and dry finish to automotive polish formulations.

Further Reading


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