

Generic Thermoplastic Elastomer

Welding

DSM: Sarlink 1000 (features: oil resistant)

Sarlink 1000 can be welded to itself and to other polar materials using a variety of techniques - radio frequency (RF), ultrasonic or thermal.

Reference: *Sarlink Thermoplastic Elastomers*, supplier technical report - DSM Thermoplastic Elastomers.

DSM: Sarlink 2000 (features: low permeability); **Sarlink 3000**

Sarlink 2000 and Sarlink 3000 grades can be thermally welded to themselves or to other non-polar polymers such as polyolefins.

Reference: *Sarlink Thermoplastic Elastomers*, supplier technical report - DSM Thermoplastic Elastomers.

Adhesive Bonding

DSM: Sarlink 1000 (features: oil resistant); **Sarlink 2000** (features: low permeability); **Sarlink 3000**

Adhesive bonding of polymeric materials is affected by the polarity and compatibility of the materials. Highly polar substances tend to bond better than those which have low polarity. Sarlink 1000 grades are very polar and demonstrate superior adhesive bonding capabilities compared to Sarlink 2000 or Sarlink 3000 grades. Excellent bond strength can be achieved using a variety of adhesive systems, including water-and solvent-based, and hot melt. Good adhesion can also be obtained with Sarlink 2000 and Sarlink 3000 particularly with solvent base systems at elevated temperatures.

Reference: *Sarlink Thermoplastic Elastomers*, supplier technical report - DSM Thermoplastic Elastomers.