Polymatech Group

Silicone-free Thermal-conductive Sheets

The ALMO Series uses TPE materials while the Ru Series and SF-J use α -olefin materials.

These materials present none of the risks of contact failure posed by conventional silicone materials due to their siloxane content. In addition, Silicone-free Thermal-conductive Sheets are furnished with electrical insulation properties, flexibility and flame

retardance to realize outstanding workability and processability.



Figure: SF-Ru: Good shape recovery performance to realize outstanding reworkability

SF-ALMO16 SF-ALMO30 SF-Ru/SF-RuS SF-J Appearance α -olefin TPE TPE **Base Polymer** α -olefin Features Double-sided adhesive Double-sided adhesive Single/Double-sided Adhesive Double-sided adhesive -Hardness JIS Type E 16 30 35 40 **Specific Gravity** 1.7 1.7 1.8 1.9 _ ≧1×10¹⁰ **Volume Resistance** Ω·cm ≧1×10¹⁰ ≧1×10¹⁰ ≧1×10⁵ **Breakdown Voltage** AC kV/mm ≥10 ≧10 >0.7 ≥10 Withstand Voltage AC kV/mm ≧10 ≧10 ≧10 >0.7 Thermal Conductivity*1 W/m•K 1.5 1.5 2.0 15 Thermal Conductivity*2 W/m·K 1.0 1.0 1.1 6 Operating Temperature Range °C -40-120 -40-120 -40-110 -40-120 UL 94 V-0 V-0 Flame Retardance V-0 V-0 equivalent Thickness 0.5-0.5-0.5-0.5-3.0 mm

Characteristics

*1: Thermal resistance conversion method, *2: ASTM D5470

The SF-J specification is subject to change without notice. Numerical values shown in the above table are actual measured values, not product standard values.





Thermal resistance measurement conditions: 10mm x 10mm X 2.0mmt samples measured by a thermal resistance measuring device manufactured by Polymatech, Heater calorific value: 4W (25W for SF-J)

Contact Tel: +81(0)48-611-6110 URL: http://www.polymatech.co.jp