

## Closed Cell Sponge Silicone Rubber

There are specially designed compounds for making closed cell sponge articles. The SPG compounds are very suitable for continuous extruded profiles producing by hot air and hot liquid system.

### FEATURES

- Excellent high & low temperature resistant (-50 °C ~ +230 °C)
- Very low compression set at high & low temperature
- excellent weather resistant

### APPLICATIONS

- Dry oven gaskets, Seals
- Building glazing gasket, seals
- Building movement gap absorbing gasket
- Food container gasket, packing
- Hot liquid pipe line insulation
- O/A Rolls
- Many suitable application



### PROPERTIES

Typical Properties	SPG-30	SPG-50	SPG-60	SPG-70
Blowing Ratio (%) approx.	200	200	200	200
Density	0.35	0.45	0.50	0.55

### FABRICATION TECHNIQUE

- Soften & Catalyst Mixing
- SPG Compounds must be pre-softening in the 2-roll mill for 3-5 min. and add suitable catalyst HC-2, 1.5 ~ 2.5phr depend on density and curing condition.
- The catalyst must be well dispersed with SPG compounds. And pigment can be added in these stages together with HC-2.
- The mixing temperature must be keep within 50 °C in any cases.
- Extrusion, Foaming, Curing
- Cold extruder is required (less 50 °C)
- HAV Tunnel : 1st zone : 150 ~ 180 °C / 2nd Zone : 180 ~ 200 °C / 3rd Zone : 200 ~ 250 °C
- Post Cure : 180 ~ 200 °C/4hrs

### DIFFICULTIES

- There are many difficult factors on the fabrication specially dimension control and profile shape, hardness control, density control. Etc...
- All the technical and right products can be made only by longer experience.