

## TPU Retardant BR-S13

BR-S13 is a new flame retardant specially developed for thermoplastic polyurethane, in different applications like TPU film, TPU circuit, or TPU glue, etc. When used alone, the transparency of TPU materials will be retained. When used in combination with MCA, significant synergistic effect was shown. To reach UL V0, a much lower dosage level is needed, which improves the mechanical properties significantly.

### Physical Data

Item	Data
Phosphors Content	12.7~13.2wt.%
Appearance	Light yellow transparent liquid
Thermally stable temperature	>300°C

### Recommended Usage

BR-S13	UL 94 rating
1-3%(depending on TPU)	V0@1.6mm

At the same time, 2%~5% MCA can be added appropriately for synergistic flame retardancy

### Processing

Extrusion temperature: 10~15°C lower than that for the virgin resin.

Injection temperature: 10~15°C lower than that for the virgin resin.

### Packaging

20kg/barrel. Samples can be packed as required.

\*The data recommended in this document can be used as a reference for various purposes. There will also be some amendments along with new technical improvements. Therefore, when designing the product, the use environment and structure of the product should be fully considered, and whether the product has any problems should be judged by the design company itself.