



Topolymer® 5711-801B

Halogen Free Flame Retardant Thermoplastic Elastomer

Product Description

Topolymer® 5711-801B is a halogen free flame retardant thermoplastic elastomer compound based on SEBS/PP. This material can be widely used in power plug, electronic & electrical, automotive, etc. This grade is designed for injection molding. It is completely recyclable.

General

| | | | |
|------------|------------------|------------------|---------------------|
| Appearance | √Black Color | | |
| Feature | √Soft Touch | √Tear Resistance | √UL Yellow Card |
| | √Bend Resistance | √Heat Resistance | √Weather Resistance |
| Compliance | √RoHS | √REACH | |
| Form | √Pellet | | |
| Packaging | √25kg/bag | | |

Technical Property

| Typical Properties | Typical Value | Unit | Test Method |
|---------------------------|---------------|-------------------|-------------|
| Hardness | 81 | Shore A | ASTM D-2240 |
| Density | 1.00 | g/cm ³ | ASTM D-792 |
| Tensile Strength at break | 13 | MPa | ASTM D-412 |
| Tensile Strength at 100% | 4.0 | MPa | ASTM D-412 |
| Elongation at Break | 650 | % | ASTM D-412 |
| Tearing Strength | 11 | KN/m | ASTM D624 |
| Rating Temperature | 80 | °C | UL1581 |
| Flame Retardant | Pass | V0 | UL94 |

The data are not to be defined as specifications

Processing Information

| Injection | Typical Value |
|-------------------------|----------------------|
| Rear Temperature | 160-180°C |
| Middle Temperature | 180-210°C |
| Front Temperature | 180-210°C |
| Nozzle Temperature | 160-90°C |
| Mold Temperature | 40-60°C |
| Injection Rate | Fast |
| Back Pressure | 0.35-0.7MPa |
| Screw Speed | 100-200rpm |
| Clamp Tonnage | 40-70MPa |
| Screw L/D Ratio | 16:1-24:1 |
| Screw Compression Ratio | 2:1-4:1 |

Notes:

- 1) The product is incompatible with PVC, Purge thoroughly before and after use of this product with a low flow (0.5 - 2.5 MFR) Polyethylene (PE) or Polypropylene (PP).
- 2) The product needs to be dried for 2-3 hours at 90°C before use
- 3) In good ventilation, the product can be stored for six months from the date of production. Property check is required if storage time is over 6 months

Contact Information

Top Polymer Enterprise Ltd
 tpe@topolymer.com
 www.topolymer.com

10 Xiyuan Rd, Tianmuhu Industrial Park
 Liyang, Jiangsu
 China
 Tel: +86 (519) 8796 6118
 Fax: +86 (519) 8796 6228

Zhen An Hi-tech Park,
 Chang An, Dongguan, Guangdong
 China
 Tel: +86 (769) 8584 6000
 Fax: +86 (769) 8584 6001

All information supplied by or on behalf of Top Polymer in relation to its products, whether in nature of data, recommendations or otherwise, is supported by research and believed reliable, but Top Polymer assumes no liability whatever in respect of application, processing or use made of the mentioned information or products, or any consequence. The buyer shall undertake all liability in respect of the application, processing or use of the mentioned information or products, or any consequence.
 Rev.2016-05-30