



# Topolymer® 5321-851G

## Halogen Free Flame Retardant Thermoplastic Elastomer

### Product Description

Topolymer® 5321-851G is a halogen free flame retardant thermoplastic elastomer compound based on SEBS/PP. This material can be used in various wire and cable applications including power cord, communication cable, USB cable, etc. This grade is designed for extrusion. It is completely recyclable.

### General

Appearance	√Gray Color		
Feature	√Flame Retardant VW-1	√Rating Temperature 90°C	√UL Yellow Card
	√Crack Resistance	√Wear Resistance	
	√Weather Resistance	√Easy Processing	
Compliance	√RoHS	√REACH	
Form	√Pellet		
Packaging	√25kg/bag		

### Technical Property

Typical Properties	Typical Value	Unit	Test Method
Hardness	86	Shore A	ASTM D-2240
Density	1.06	g/cm <sup>3</sup>	ASTM D-792
Tensile Strength at break	12	MPa	ASTM D-412
Tensile Strength at 100%	8.0	MPa	ASTM D-412
Elongation at Break	360	%	ASTM D-412
Tearing Strength	7	KN/m	ASTM D624
Rating Temperature	90	°C	UL1581
Flame Retardant	Pass	VW-1	UL1581

The data are not to be defined as specifications

**Processing Information**

<b>Extrusion</b>	<b>Typical Value</b>
Melt Temp	190-220°C
Rear Temperature	160-180°C
Middle Temperature	190-220°C
Front Temperature	190-220°C
Head Temperature	180-210°C
Die Temperature	180-210°C
Filter	100 -150 mesh
Compress Ratio	2.8:1

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 100°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