



# Topolymer<sup>®</sup> 5221-931B

## Halogen Free Flame Retardant Thermoplastic Elastomer

### Product Description

Topolymer<sup>®</sup> 5221-931B is a halogen free flame retardant thermoplastic elastomer compound based on mPPE/PE. This material can be used in various wire and cable applications including appliance wire, communication cable, USB cable, etc. This grade is designed for extrusion. It is completely recyclable.

### General

Appearance	√Black Color		
Feature	√Flame Retardant VW-1	√Rating Temperature 105°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	93	Shore A	ASTM D-2240
Density	1.06	g/cm <sup>3</sup>	ASTM D-792
Tensile Strength at break	14	MPa	ASTM D-412
Tensile Strength at 100%	9.5	MPa	ASTM D-412
Elongation at Break	350	%	ASTM D-412
Tearing Strength	9	KN/m	ASTM D624
Rating Temperature	105	°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	190-210°C
Rear Temperature	160-200°C
Middle Temperature	190-210°C
Front Temperature	190-210°C
Head Temperature	180-200°C
Die temperature	180-200°C
Filter	100-150mesh
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 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**

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Rev.2016-05-30