



Topolymer[®] ECO 5332-801B

Halogen Free Flame Retardant Thermoplastic Elastomer

Product Description

Topolymer[®] ECO 5332-801B is a halogen free flame retardant thermoplastic elastomer compound based on SEBS/PP. The Bio-based carbon content is 5%. 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 ✓ Black Color
- Feature ✓ Flame Retardant VW-1 ✓ Rating Temperature 80°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	80	Shore A	ASTM D-2240
Density	1.07	g/cm ³	ASTM D-792
Tensile Strength at break	9.3	MPa	ASTM D-412
Tensile Strength at 100%	5.1	MPa	ASTM D-412
Elongation at Break	442	%	ASTM D-412
Tearing Strength	15.4	KN/m	ASTM D624
Rating Temperature	80	°C	UL1581
Flame Retardant	Pass	VW-1	UL1581

The data are not to be defined as specifications

Processing Information

Extrusion	Typical Value
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 dry before use, dry pellets for 2-3 hours at 100°C
- 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

1017 Building 1, No. 1 Junma Street, Chigang
 Humen Town, Dongguan City, 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.2024-01-01