



Topolymer[®] ECO 5332-851W

Halogen Free Flame Retardant Thermoplastic Elastomer

Product Description

Topolymer[®] ECO 5332-851W is a halogen free flame retardant thermoplastic elastomer compound based on SEBS/PP. The Bio-based carbon content is 20%. 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	✓ White 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	85	Shore A	ASTM D-2240
Density	1.07	g/cm ³	ASTM D-792
Tensile Strength at break	11.6	MPa	ASTM D-412
Tensile Strength at 100%	7.9	MPa	ASTM D-412
Elongation at Break	288	%	ASTM D-412
Tearing Strength	10	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 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.

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