



Topolymer[®] ECO 5732-553N

Halogen Free Flame Retardant Thermoplastic Elastomer

Product Description

Topolymer[®] ECO 5732-553N is a halogen free flame retardant thermoplastic elastomer compound based on SEBS/PP. The Bio-based carbon content is 48%. 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	✓ Natural 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	53	Shore D	ASTM D-2240
Density	1.06	g/cm ³	ASTM D-792
Tensile Strength at break	17	MPa	ASTM D-412
Tensile Strength at 100%	9.9	MPa	ASTM D-412
Elongation at Break	635	%	ASTM D-412
Tearing Strength	40.4	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 dry before use, dry pellets for 2-3 hours at 90°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

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Rev.2024-01-01