



Topolymer[®] 5221-553N

Halogen Free Flame Retardant Thermoplastic Elastomer

Product Description

Topolymer[®] 5221-553N 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	√Natural 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	55D	Shore D	ASTM D-2240
Density	1.08	g/cm ³	ASTM D-792
Tensile Strength at break	20	MPa	ASTM D-412
Tensile Strength at 100%	16.0	MPa	ASTM D-412
Elongation at Break	180	%	ASTM D-412
Tearing Strength	10	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

Extrusion	Typical Value
Melt Temp	190-240°C
Rear Temperature	160-180°C
Middle Temperature	190-240°C
Front Temperature	190-240°C
Head Temperature	190-230°C
Die temperature	190-230°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 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

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