



# Topolymer® 9610-701N

## Thermoplastic Vulcanizate

### Product Description

Topolymer® 9610-701N is a heat-stabilized PP/EPDM based Thermoplastic Vulcanizate (TPV) in the family of Thermoplastic Elastomers (TPE). This material is designed for use in a wide range of markets and applications such as seals, gaskets, durable/nondurable consumer products, as well as applications requiring contact with potable water. This product is NSF International Certified and conforms to the requirements of NSF/ANSI Standard 61: Drinking Water System Components. This grade can be processed using conventional thermoplastics processing equipment such as Injection Molding, Extrusion and Blow Molding or other hot melt processes. It is completely recyclable.

### General

Appearance	✓ Black Color		
Feature	✓ Low VOC	✓ Easy Processing	✓ High Resilience
	✓ Easy Coloring	✓ Smooth Surface	✓ Weather Resistance
Compliance	✓ NSF61	✓ RoHS	✓ REACH
Form	✓ Pellet		
Packaging	✓ 25kg/bag		

### Technical Property

Typical Properties	Typical Value	Unit	Test Method
Hardness	71	Shore A	ASTM D2240
Specific Gravity	0.95	g/cm <sup>3</sup>	ASTM D792
Tensile Strength at break	6.8	MPa	ASTM D412
Tensile Strength at 100%	2.6	MPa	ASTM D412
Elongation at Break	430	%	ASTM D412
Tear Strength - Across Flow	24	KN/m	ASTM D624
Compression Set 70°Cx22h	30	%	ASTM D395B
Brittleness Temperature	-60	°C	ASTM D746

The data are not to be defined as specifications

## Processing Information

Injection	Typical Value
Suggested Max Moisture	0.08%
Suggested Max Regrind	20%
Rear Temperature	175-190°C
Middle Temperature	180-195°C
Front Temperature	185-200°C
Nozzle Temperature	185-210°C
Mold Temperature	25-55°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
Extrusion	Typical Value
Melt Temperature	175-215°C
Die Temperature	175-215°C

### Notes:

- 1) Topolymer® TPV 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) Color concentrate with PP or PE based carriers are recommended for coloring
- 3) Topolymer ®9610-701N needs to be dry before use,dry pellets for 3 hours at 80°C

## Contact Information

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