



# Topolymer® 9410-601B

## Thermoplastic Vulcanizate

### Product Description

Topolymer® 9410-601B is a heat-stabilized PP/EPDM based Thermoplastic Vulcanizate (TPV) in the family of Thermoplastic Elastomer (TPE). This material is designed for a wide range of applications such as automotive underhood, sealing systems, covers, electricals or other parts where softness and conformity are needed. This grade can be processed on conventional thermoplastics processing equipments for Injection Molding, Extrusion and Blow Molding or other hot melt processes. It is completely recyclable.

### General

Appearance	✓ Black Color		
Feature	✓ High Resilience	✓ Weather Resistance	✓ Chemical Resistance
Compliance	✓ RoHS	✓ REACH	
Form	✓ Pellet		
Packaging	✓ 25kg/bag		

### Technical Property

Typical Properties	Typical Value	Unit	Test Method
Hardness	63	Shore A	ASTM D2240
Density	0.95	g/cm <sup>3</sup>	ASTM D792
Tensile Strength at break	5.3	MPa	ASTM D412
Tensile Strength at 100%	2.1	MPa	ASTM D412
Elongation at Break	385	%	ASTM D412
Tear Strength - Across Flow	21	KN/m	ASTM D624
Compression Set 70°Cx22h	28	%	ASTM D395B
Compression Set 125°Cx70h	-60	%	ASTM D395B
Brittleness Temperature	-60	°C	ASTM D746
Change in Tensile Strength In Air 150°Cx168h	-10	%	ASTM D573
Change in Ultimate Elongation In Air 150°Cx168h	-13	%	ASTM D573
Change in Durometer Hardness in Air 150°Cx168h	+3	Shore A	ASTM D2240

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) Topolymer® 9410-601B needs to be dry before use, dry pellets for 3 hours at 80°C

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