



Topolymer® 9410-851B

Thermoplastic Vulcanizate

Product Description

Topolymer® 9410-851B 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 | 93 | Shore A | ASTM D2240 |
| Density | 0.93 | g/cm ³ | ASTM D792 |
| Tensile Strength at break | 13.9 | MPa | ASTM D412 |
| Tensile Strength at 100% | 5.4 | MPa | ASTM D412 |
| Elongation at Break | 750 | % | ASTM D412 |
| Tear Strength - Across Flow | 60 | KN/m | ASTM D624 |
| Compression Set 70°Cx22h | 50 | % | ASTM D395B |
| Brittleness Temperature | -50 | °C | ASTM D746 |
| Change in Tensile Strength In Air 150°Cx168h | +10 | % | ASTM D573 |
| Change in Ultimate Elongation In Air 150°Cx168h | -15 | % | ASTM D573 |
| Change in Durometer Hardness in Air 150°Cx168h | +2 | 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® 9410-851B needs to be dry before use, dry pellets for 3 hours at 80°C

Contact Information

Top Polymer (China)
 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

1017 Building 1, No. 1 Junma Street, Chigang
 Humen Town, Dongguan City, GuangDong
 China
 Tel: +86 (769) 8584 6000
 Fax: +86 (769) 8584 6001

All information supplied by or on behalf of Top Polymer in relation to its products, whether in nature of data, recommendations or otherwise, is supported by research and believed reliable, but Top Polymer assumes no liability whatever in respect of application, processing or use made of the mentioned information or products, or any consequence. The buyer shall undertake all liability in respect of the application, processing or use of the mentioned information or products, or any consequence.

Rev.2024-01-01