

# Santoprene™ 121-50E500

Thermoplastic Vulcanizate

ExxonMobil Chemical

Message:

It is a soft, black, UV-resistant thermoplastic vulcanized elastomer (TPV) in the thermoplastic elastomer (TPE) series. This material has controllable rheology and is used in automatic or special extrusion molding. This brand of Sanduping TPV is a shear rate dependent product that can be processed on conventional thermoplastic extrusion molding equipment. This is a polyolefin-based material that can be recycled in the production process.

| General Information |                                 |
|---------------------|---------------------------------|
| Features            | Good UV resistance              |
|                     | Recyclable materials            |
|                     | Good melt strength              |
|                     | Ozone resistance                |
|                     | Good weather resistance         |
| Uses                | Application in Automobile Field |
|                     | Car exterior decoration         |
|                     | Outdoor application             |
| RoHS Compliance     | RoHS compliance                 |
| Appearance          | Black                           |
| Forms               | Particle                        |
| Processing Method   | Extrusion                       |
|                     | Profile extrusion molding       |

| Physical                                              | Nominal Value | Unit              | Test Method       |
|-------------------------------------------------------|---------------|-------------------|-------------------|
| Specific Gravity                                      |               |                   |                   |
| --                                                    | 0.908         | g/cm <sup>3</sup> | ASTM D792         |
| --                                                    | 0.910         | g/cm <sup>3</sup> | ISO 1183          |
| Hardness                                              | Nominal Value | Unit              | Test Method       |
| Durometer Hardness (Shaw A, 15 seconds, 23°C, 2.00mm) | 56            |                   | ISO 868           |
| Elastomers                                            | Nominal Value | Unit              | Test Method       |
| Tensile Stress - Across Flow (100% Strain, 23°C)      | 1.70          | MPa               | ASTM D412, ISO 37 |
| Tensile Strength - Across Flow (Break, 23°C)          | 4.00          | MPa               | ASTM D412, ISO 37 |
| Tensile Elongation - Across Flow (Break, 23°C)        | 450           | %                 | ASTM D412, ISO 37 |
| Compression Set                                       |               |                   |                   |
| 70°C, 22 hr <sup>1</sup>                              | 23            | %                 | ASTM D395B        |
| 125°C, 70 hr <sup>2</sup>                             | 41            | %                 | ASTM D395B        |

| 70°C, 22 hr <sup>3</sup>                                       | 23            | %    | ISO 815            |
|----------------------------------------------------------------|---------------|------|--------------------|
| 125°C, 70 hr <sup>4</sup>                                      | 41            | %    | ISO 815            |
| Aging                                                          | Nominal Value | Unit | Test Method        |
| Change in Tensile Strength in Air (135°C, 168 hr)              | -5.0          | %    | ASTM D573, ISO 188 |
| Change in Ultimate Elongation in Air (135°C, 168 hr)           | -5.0          | %    | ASTM D573, ISO 188 |
| Change in Durometer Hardness in Air (support a, 135°C, 168 hr) | -1.0          |      | ASTM D573, ISO 188 |
| Thermal                                                        | Nominal Value | Unit | Test Method        |
| Brittleness Temperature                                        | -61.0         | °C   | ASTM D746, ISO 812 |
| Additional Information                                         |               |      |                    |

如果适用,这是基于扇形浇口注塑成型的平板测试结果.拉伸强度,伸长率和拉伸应力沿垂直流动方向测定 - ISO 1 型,ASTM die C.25% 形变时的永久压缩变形.从埃克森美孚欧洲分支机构直接购买的所有产品都符合 REACH 法规. 对于埃克森美孚未进口至欧洲的产品,用户应自行评估其是否满足 REACH 法规.

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#### Extrusion instructions

Santoprene TPV与乙缩醛和PVC不相容.更多关于加工和模具设计的信息,请查阅我们的《挤出成型指南》.

#### NOTE

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