

SANTOPRENE® 121-80B200

SANTOPRENE®

A soft, black, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is specially formulated to enhance bonding onto EPDM vulcanized parts and TPV materials. It offers better adhesion on a small contact area, such as for weatherseals with thin lips or complex geometry. This grade of Santoprene® TPV is shear-dependent and can be processed on conventional thermoplastics equipment for injection molding. It is polyolefin based and recyclable within the manufacturing stream.

Key Features

- Adheres to TPV and vulcanized EPDM rubber over a wide range of temperatures
- High flexibility and targeted to automotive profiles, TPV or EPDM rubber
- Higher gloss enables matching better extruded profile mating surface
- Used in sealing applications
- Corner Molding

Product information

| | | |
|----------------------|-------|-----------|
| Resin Identification | TPV | ISO 1043 |
| Part Marking Code | >TPV< | ISO 11469 |

Typical mechanical properties

| | | |
|--|----------|------------------------|
| Tensile stress at 100% elongation, perpendicular | 3.9 MPa | ISO 37 |
| Stress at break, perpendicular | 11.9 MPa | ISO 527-1/-2 or ISO 37 |
| Elongation at break, perpendicular | 725 % | ISO 527-1/-2 or ISO 37 |
| Shore A hardness, 15s | 81 | ISO 48-4 / ISO 868 |

Physical/Other properties

| | | |
|---------|-----------------------|----------|
| Density | 910 kg/m ³ | ISO 1183 |
|---------|-----------------------|----------|

Injection

| | |
|----------------------|-------|
| Ejection temperature | 90 °C |
|----------------------|-------|

Additional information

Processing Notes

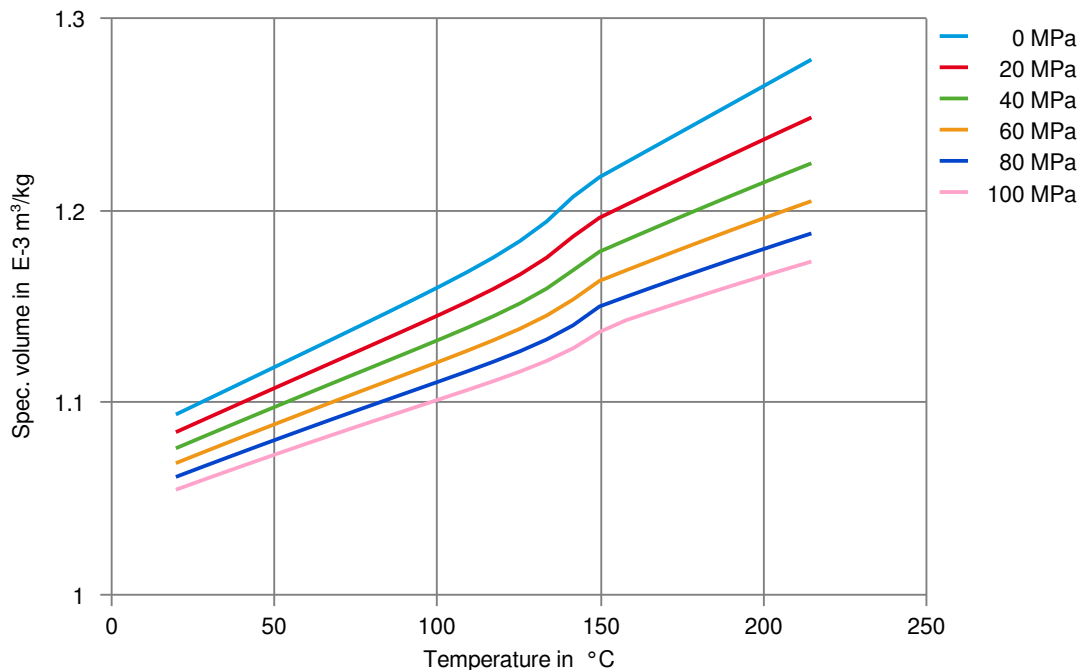
Processing Notes

Desiccant drying for 3 hours at 80 °C (180 °F) is recommended. Santoprene® TPV has a wide temperature processing window from 175 to 230 °C (350 to 450 °F) and is incompatible with acetal and PVC.

SANTOPRENE® 121-80B200

SANTOPRENE®

Specific volume-temperature (pvT)



NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products.

© 2024 Celanese or its affiliates. All rights reserved. Celanese®, registered C-ball design and all other trademarks identified herein with ®, TM, SM, unless otherwise noted, are trademarks of Celanese or its affiliates. Fortron is a registered trademark of Fortron Industries LLC. KEPITAL is a registered trademark of Korea Engineering Plastics Company, Ltd.