

SANTOPRENE® 8221-65M300

SANTOPRENE®

A soft, colorable, UV resistant thermoplastic vulcanizate (TPV) in the thermoplastic elastomer (TPE) family. This material is designed for automotive interior applications requiring low fogging and good appearance. 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

- · Neutral, easy coloring formulation.
- · Excellent ozone resistance.
- Used in sealing applications.
- · Recommended for applications requiring excellent flex fatigue resistance.
- · Designed for improved UV resistance.

Product information			
Resin Identification	TPV		ISO 1043
Part Marking Code	>TPV<		ISO 11469
Typical mechanical properties			
Tensile stress at 100% elongation, perpendicular	2.1	MPa	ISO 37
Tensile stress at break, perpendicular	4.7	MPa	ISO 527-1/-2 or ISO 37
Elongation at break, perpendicular	470	%	ISO 527-1/-2 or ISO 37
Brittleness Temperature	-60	°C	ASTM D 746
Low temperature brittleness	-60	°C	ISO 812
Shore A hardness, 15s	65		ISO 48-4 / ISO 868
Flammability			
FMVSS Class	В		ISO 3795 (FMVSS 302)
Burning rate, Thickness 2 mm	23.2	mm/min	ISO 3795 (FMVSS 302)
Physical/Other properties			
Density	920	kg/m³	ISO 1183
Injection			
Drying Recommended	yes		
Drying Temperature	•	°C	
Drying Time, Dehumidified Dryer	≥3	h	
Processing Moisture Content	≤0.08	%	
Melt Temperature Optimum	200	°C	
Min. melt temperature	185	°C	
Max. melt temperature	215	°C	
Mold Temperature Optimum		°C	
Min. mould temperature		°C	
Max. mould temperature	50	°C	

Printed: 2025-05-30



SANTOPRENE® 8221-65M300

Characteristics Processing Injection Moulding, Multi Injection Moulding Pellets Delivery form Special characteristics U.V. stabilised or stable to weather, High Flow Additional information Injection molding Holding pressure should be about 50 to 75% of the actual injection pressure. A high screw RPM (100 to 200) is recommended. Back pressure is not always needed, however, a back pressure of 0.3 to 0.7 MPa may be used to ensure a homogeneous melt and maintain a consistent shot size. A higher back pressure is normally employed when using masterbatches. 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® TPV has a relatively high melt viscosity at low shear rates. Viscosity decreases as the shear rate increases. Increasing temperature has little effect on TPV melt viscosity. Smaller gates and higher shear rates keep melt viscosity low and improve melt flow. Please also refer to the injection molding guide. Automotive OEM STANDARD ADDITIONAL INFORMATION Ford WSS-M2D510-A6 **General Motors** GMW15816P-TPV-EPDM+PP-Class-I-Type-5 Non-phenolic cured Mercedes-Benz DBL5562-30 SANTOPRENE8221-65M300_DBL5562-30_2 022-04-01.pdf Mercedes-Benz STD4376-7 Santoprene8221-65M300 STD4376-7 2023-09-13.pdf Stellantis - Chrysler MS-AR-100 BMV2-HF Natural VW Group VW 50123 SANTOPRENE8221-65M300 VW 50123_2022-04-01.pdf VW Group VW 50180 SANTOPRENE8221-65M300_VW 50180_2022-04-01.pdf





SANTOPRENE[®] 8221-65M300

SANTOPRENE®

Printed: 2025-05-30

Revised: 2025-04-22 Source: Celanese Materials Database

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 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 he lowest 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

© 2025 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.

Page: 3 of 3