TALCOPRENE® 1522SMT Y1

TALCOPRENE®

Polypropylene, homopolymer, 21% mineral filled, high heat stabilization.

Product information

Resin Identification	PP-T21		ISO 1043
Part Marking Code	>PP-T21<		ISO 11469

Rheological properties

Melt mass-flow rate	15	g/10min	ISO 1133
Melt mass-flow rate, Temperature	446	°F	
Melt mass-flow rate, Load	4.76	lb	
Molding shrinkage range, parallel	1.1 - 1.5	%	ISO 294-4, 2577
Molding shrinkage range, normal	1 - 1.4	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	334000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	4400	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	4	%	ISO 527-1/-2
Flexural modulus	355000	psi	ISO 178
Flexural strength	5800	psi	ISO 178
Charpy impact strength, 23°C	13.3	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	1.43	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -30°C	0.761	ftlb/in²	ISO 179/1eA

Thermal properties

Melting temperature, 10°C/min	331	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	149	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	234	°F	ISO 75-1/-2
Vicat softening temperature, 50°C/h 50N	196	°F	ISO 306
Coefficient of linear thermal expansion (CLTE), parallel	0.50[1]	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.667[1]	E-4/°F	ISO 11359-1/-2

[1]: Temperature range: 23°C to 80°C

Flammability

Burning Behav. at 1.5mm nom. thickn.	HB	class	IEC 60695-11-10
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.1260	in	IEC 60695-11-10
FMVSS Class	B		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	2.28	in/min	ISO 3795 (FMVSS 302)

Physical/Other properties

Density	0.0383	lb/in³	ISO 1183

TALCOPRENE® 1522SMT Y1

TALCOPRENE®

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Mercedes-Benz	DBL5408	
Stellantis	B62 0300 / 61/211E/209M/12/C1B	01378_21_01663
VW Group	VW 44045	

Additional information

Processing Notes

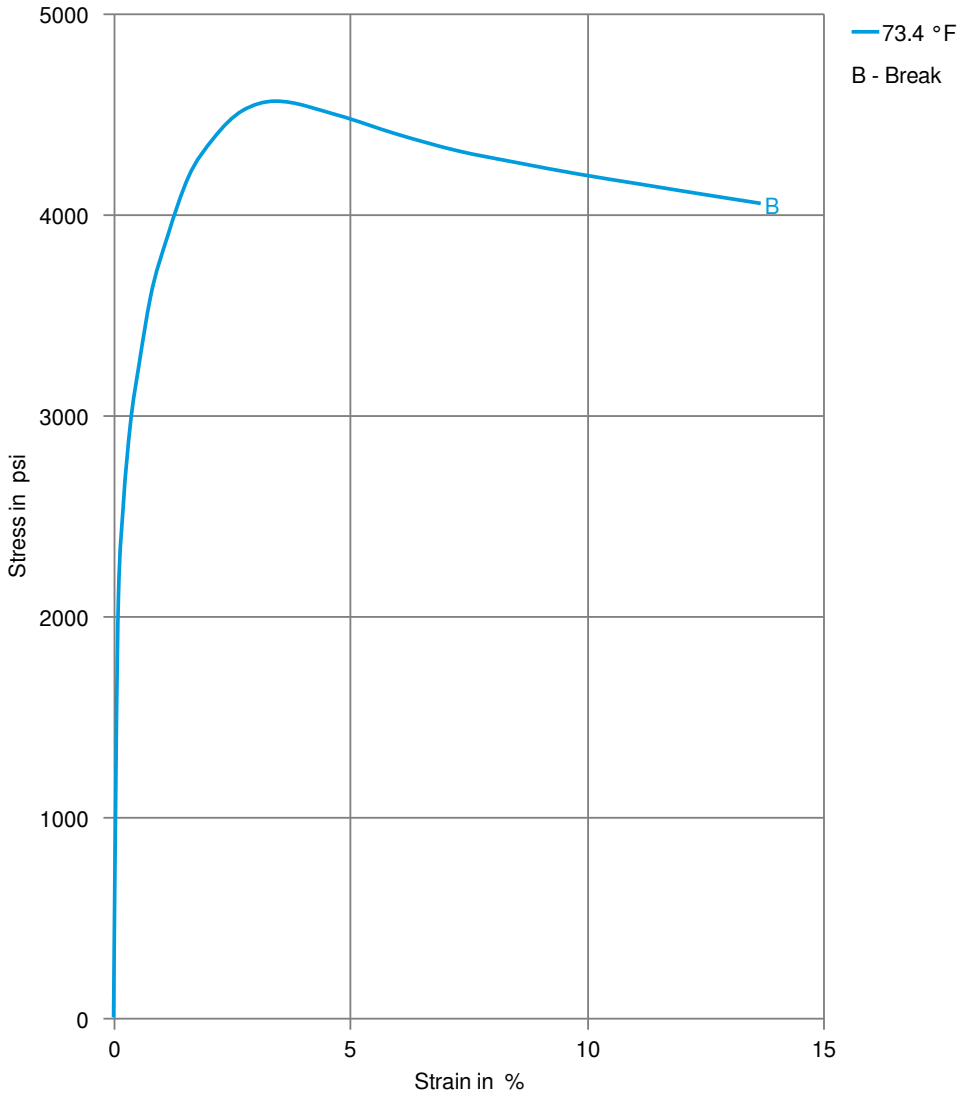
Storage

This product should be stored in a covered facility and kept away from moisture and heat.

Stress-strain

TALCOPRENE® 1522SMT Y1

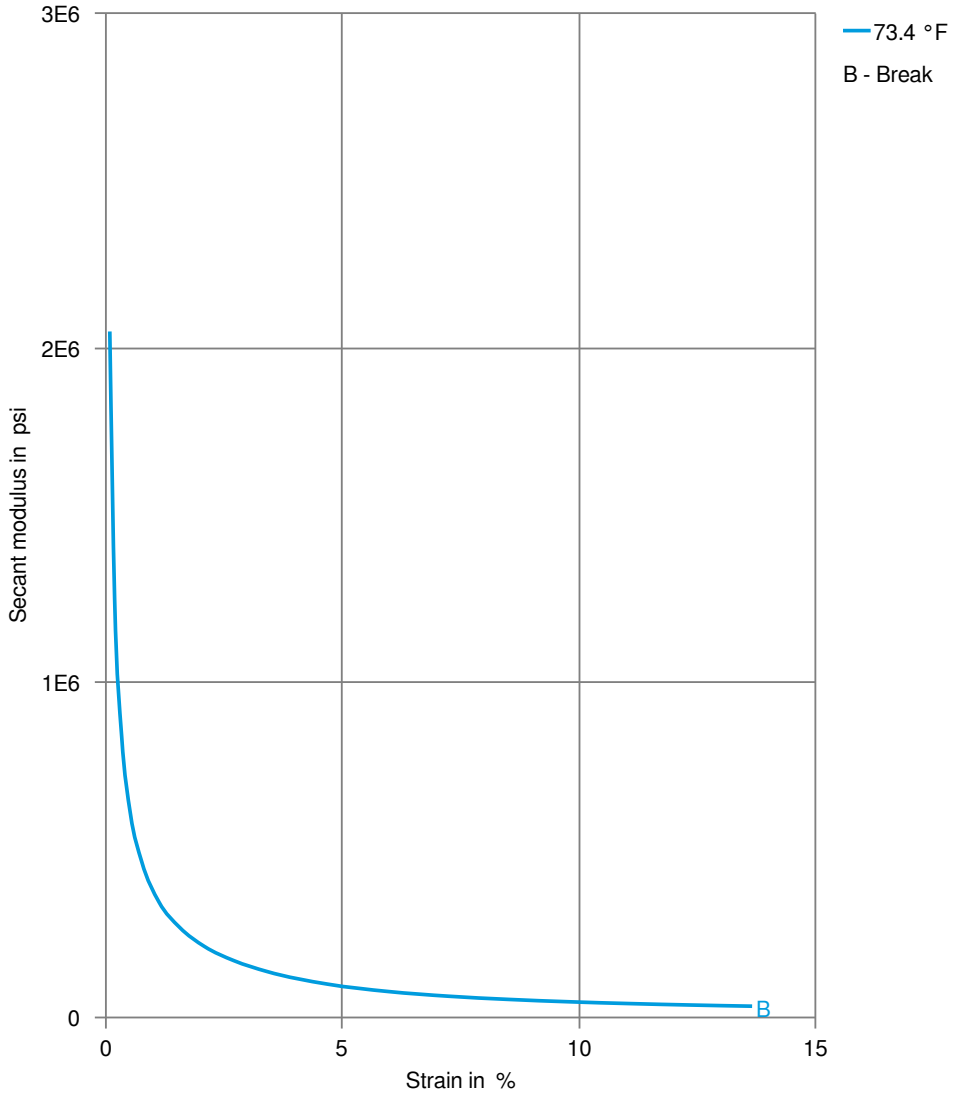
TALCOPRENE®



TALCOPRENE® 1522SMT Y1

TALCOPRENE®

Secant modulus-strain



Revised: 2026-08-12 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. Colorants or other additives may cause significant variations in data values. Properties of molded 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.
Copyright © 2026 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.