



Zytel® FR73G30V0NH1 ECO-R 311 N904LM incorporates 30% of post-industrial recycled content by weight in the finished product. The product is designed for applications requiring self-extinguishing properties combined with good mechanical performances.

Product information

Resin Identification Part Marking Code Continuous Service Temperature	(PA6)-GF30 FR(40) REC(30) >(PA6)-GF30 FR(40) REC(30)< 130 °C		ISO 1043 ISO 11469 IEC 60216-1
Rheological properties	dry/cond.		
Viscosity number	150/*	cm ³ /g	ISO 307, 1628
Moulding shrinkage range, parallel	0.3 - 0.6	%	ISO 294-4, 2577
Moulding shrinkage range, normal	0.6 - 0.9	%	ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus	10300/5800	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	125/75	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5/6.5	%	ISO 527-1/-2
Charpy impact strength, 23°C	50/>50	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	45/40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	8/10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	6.5/6	kJ/m²	ISO 179/1eA
Poisson's ratio	0.34/0.35 ^[C]		
[C]: Calculated			
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	220/*	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	190/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	210/*	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h 10N	213	°C	ISO 306
Ball pressure test	175/-	°C	IEC 60695-10-2
Flammability	dry/cond.		
Burning Behav. at 1.5mm nom. thickn.	V-0/*	class	IEC 60695-11-10
Burning Behav. at thickness h	V-0/*	class	IEC 60695-11-10
Thickness tested	0.75/*	mm	IEC 60695-11-10
Glow Wire Flammability Index, 0.75mm	850/-	°C	IEC 60695-2-12
Glow Wire Ignition Temperature, 0.75mm	725/-	°C	IEC 60695-2-13
Electrical properties	dry/cond.		
Volume resistivity	>1E13/-	Ohm.m	IEC 62631-3-1
Surface resistivity	*/1E13	Ohm	IEC 62631-3-2
Comparative tracking index, 100 drops	600		IEC 60112





Physical/Other properties	dry/cond.		
Humidity absorption, 2mm Water absorption, 2mm Density	1.2/* 4.3/* 1430/-	% % kg/m ³	Sim. to ISO 62 Sim. to ISO 62 ISO 1183
Injection			
Drying Recommended Drying Temperature Drying Time, Dehumidified Dryer Processing Moisture Content Melt Temperature Optimum Min. melt temperature Max. melt temperature Screw tangential speed Mold Temperature Optimum Min. mould temperature Max. mould temperature	2 - 4 ≤0.1 250 240 260 ≤0.2 80 60	°C h % °C °C	
Characteristics			
Processing	Injection Moulding		
Delivery form	Granules		
Additives	Flame retardant, Non-halogenated	d/Red phosphorous free flame re	tardant

Special characteristics

Sustainability

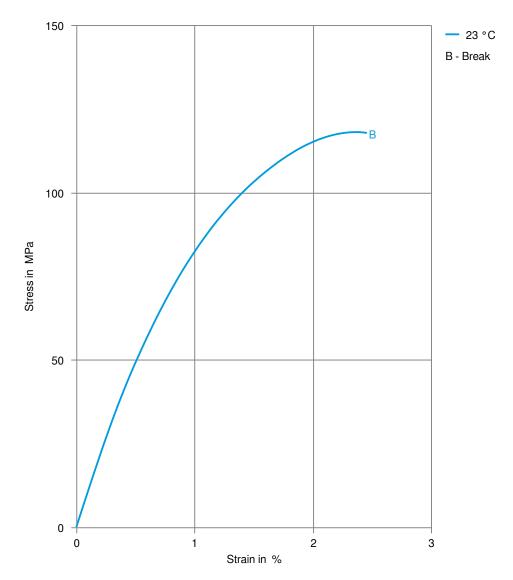
Flame retardant, Heat stabilised or stable to heat

Recycled Content





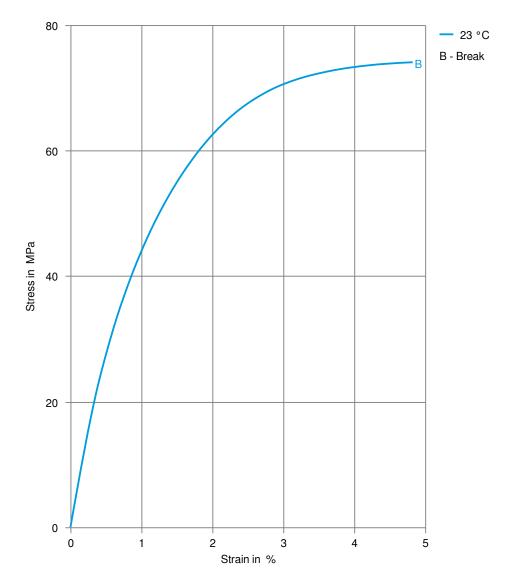
Stress-strain (dry)







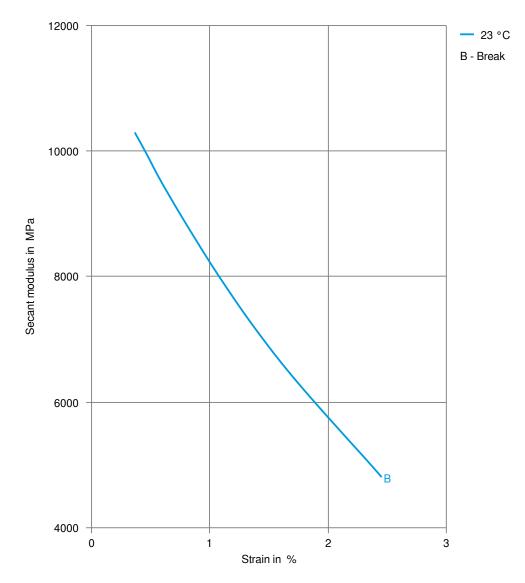
Stress-strain (cond.)







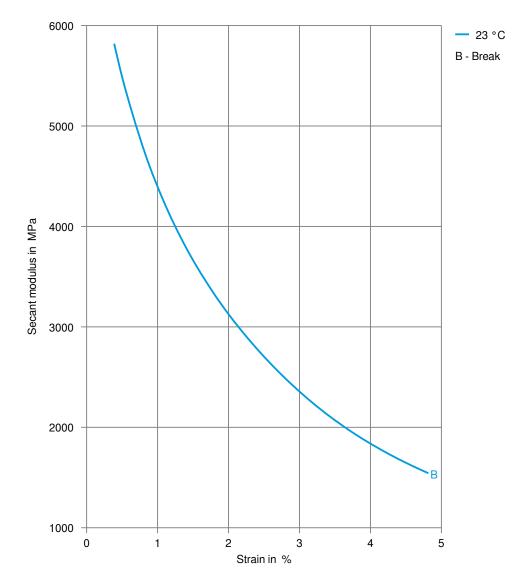
Secant modulus-strain (dry)







Secant modulus-strain (cond.)



Printed: 2025-05-29

Page: 6 of 6

Revised: 2024-12-03 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 not intended for use in medical or dental implants. Regardless of any such product 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. Contained in this publication is accurate; however, we do not response to reduce. 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 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 informat

© 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.