Zytel® 74G35ARX ECO-R 311 BLK1

NYLON RESIN

Zytel® 74G35ARX ECO-R 311 BLK1 incorporates 30% of post-industrial recycled content by weight in the finished product. It is a 35% Glass Reinforced, Heat Stabilized, Polyamide 66 designed for Automotive industry.

Product information

Resin Identification	(PA66+PA6)-GF35	ISO 1043
Part Marking Code	>(PA66+PA6)-GF35<	ISO 11469

Rheological properties

Molding shrinkage range, parallel	0.2 - 0.4	%	ISO 294-4, 2577
Molding shrinkage range, normal	0.6 - 0.9	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	1.51E6 / 914000	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	21800 / 15100	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.5 / 4	%	ISO 527-1/-2
Flexural modulus	1.42E6 / -	psi	ISO 178
Flexural strength	33400 / -	psi	ISO 178
Charpy impact strength, 23°C	28.5 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	4.76 / -	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -30°C	3.33 / -	ftlb/in²	ISO 179/1eA

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	495 / *	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	444 / *	°F	ISO 75-1/-2

Flammability

Burning rate, Thickness 1 mm	1.53	in/min	ISO 3795 (FMVSS 302)

Emissions

	dry/cond.		
Emissions	<2 / *	mg/kg	VDA 275
Odor test	6	class	VDA 270
Fogging, G-value (condensate)	0.1 / *	mg	ISO 6452

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Stellantis	B62 0300 / 61/213M-215E+/13	Technical Black
Stellantis - Chrysler	MS.50017 / CPN-4157R	Technical Black

Characteristics

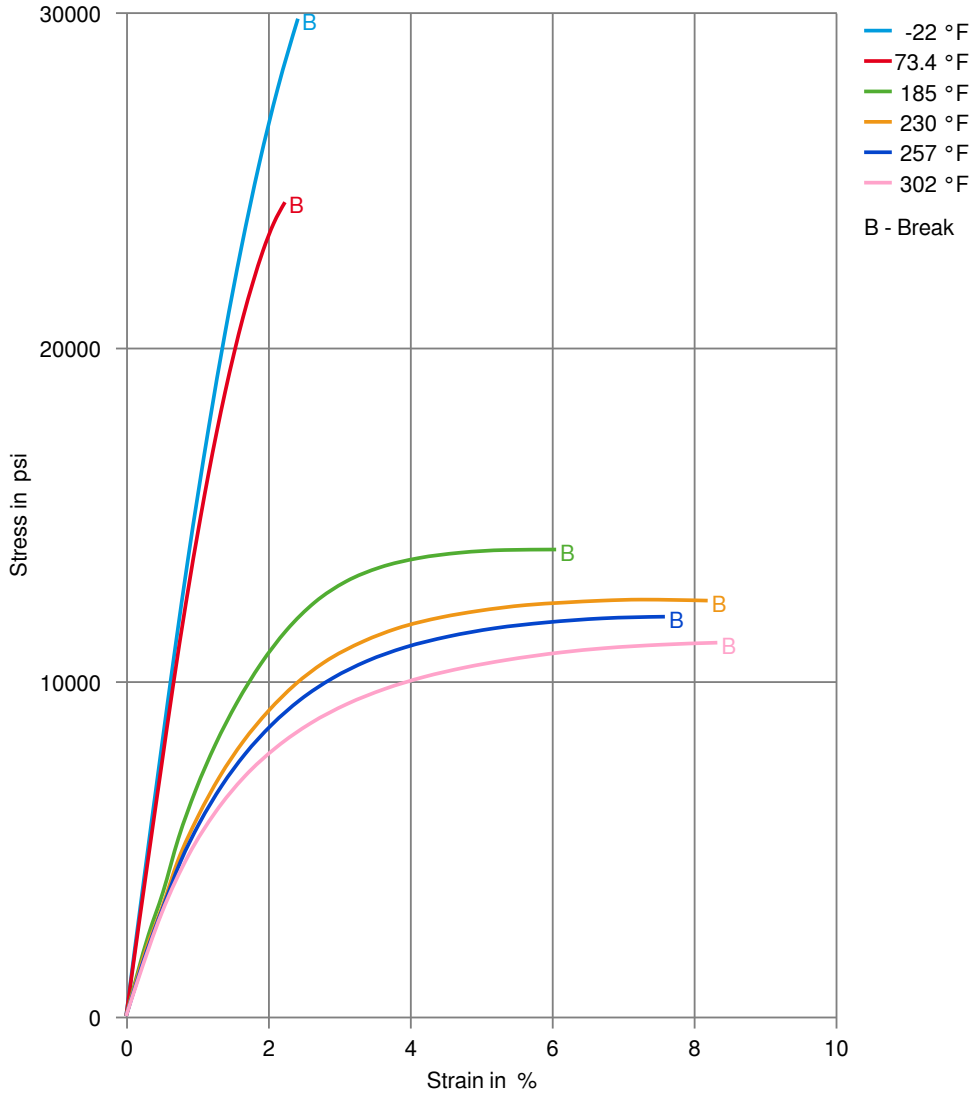
Processing	Injection Molding
Special characteristics	Heat stabilized or stable to heat
Sustainability	Recycled Content

Revised: 2025-07-08 Source: Celanese Materials Database

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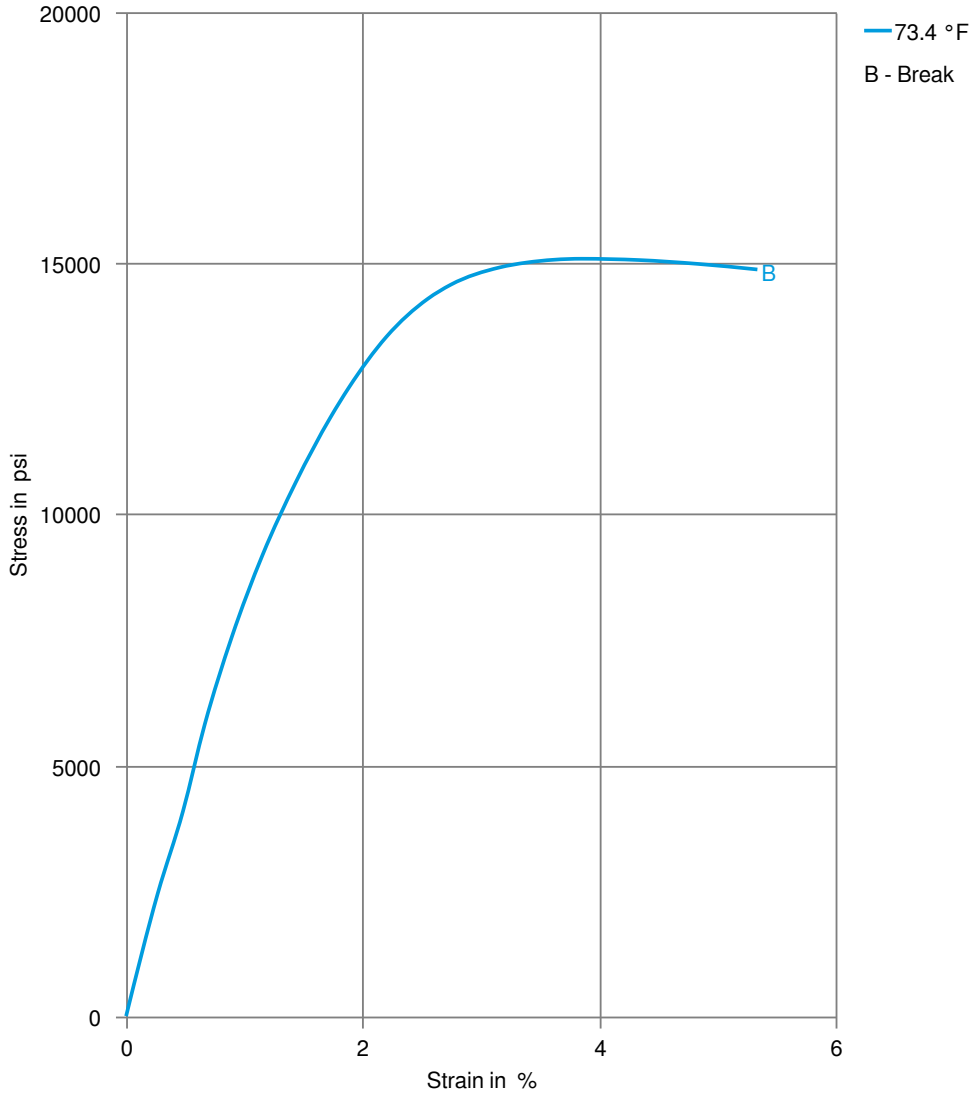
Stress-strain (dry)



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Stress-strain (cond.)

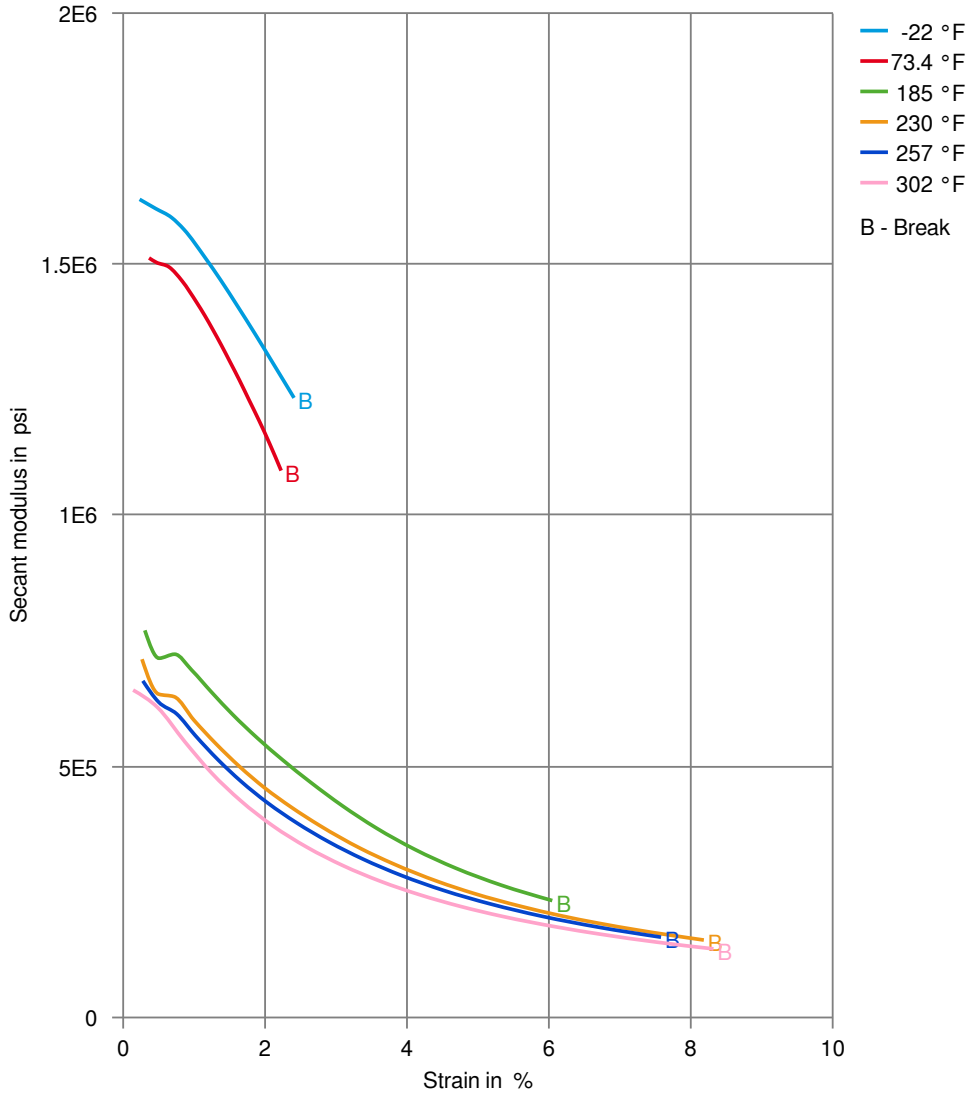


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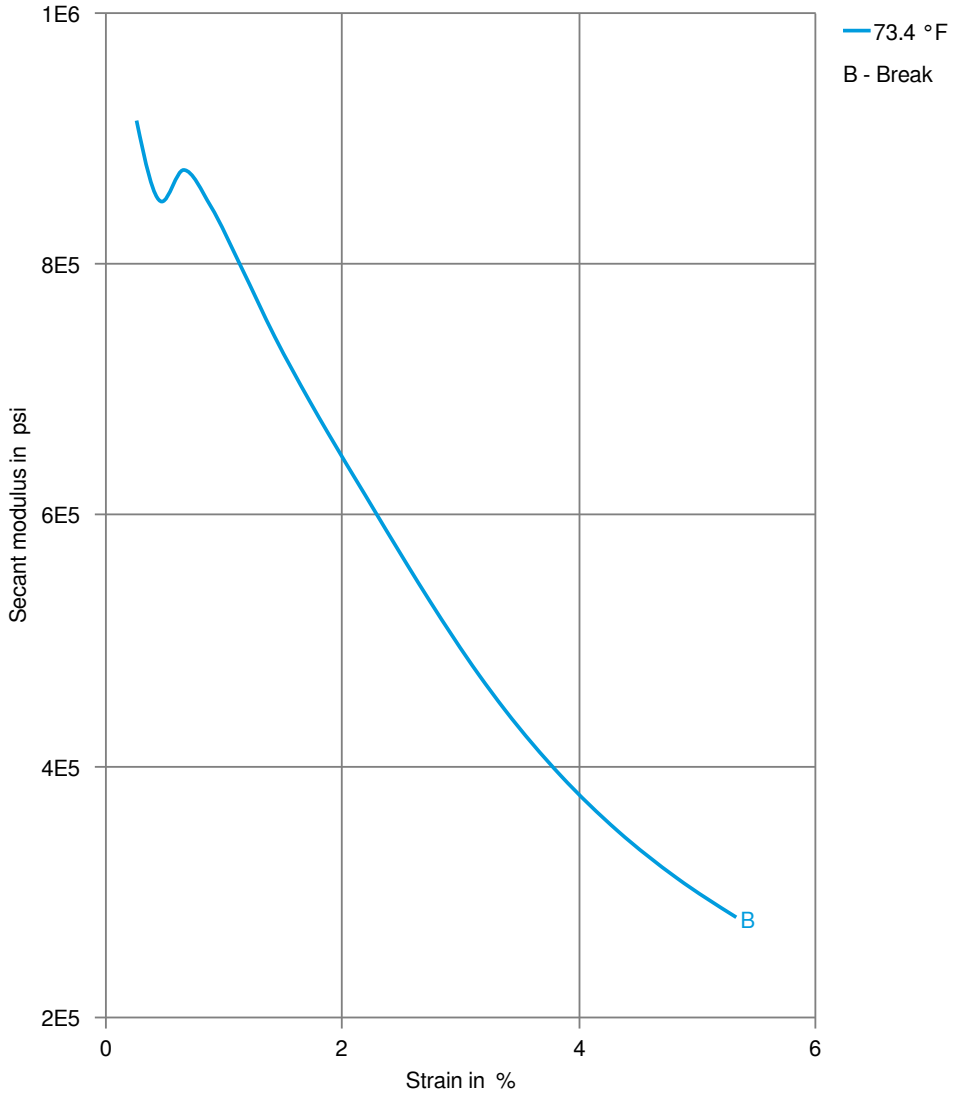
Secant modulus-strain (dry)



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Secant modulus-strain (cond.)



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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.
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