

Common features of Zytel® nylon resin include mechanical and physical properties such as high mechanical strength, excellent balance of stiffness and toughness, good high temperature performance, good electrical and flammability properties, good abrasion and chemical resistance. In addition, Zytel® nylon resins are available in different modified and reinforced grades to create a wide range of products with tailored properties for specific processes and end-uses. Zytel® nylon resin, including most flame retardant grades, offer the ability to be coloured.

The good melt stability of Zytel® nylon resin normally enables the recycling of properly handled production waste. If recycling is not possible, we recommend, as the preferred option, incineration with energy recovery (-31kJ/g of base polymer) in appropriately equipped installations. For disposal, local regulations have to be observed.

Zytel® nylon resin typically is used in demanding applications in the automotive, furniture, domestic appliances, sporting goods and construction industry.

Zytel® 74G33W NC010 is a high gloss automotive weatherable 33% glass reinforced nylon 66 and nylon 6 comelt resin.

Product information			
Resin Identification	PA66+PA6-GF3		ISO 1043
Part Marking Code ISO designation	3 >PA66+PA6-GF3 ISO 16396-(PA66	33< 5+PA6),GF33,M1GL1N,	ISO 11469 S14-110
Rheological properties	dry/cond.		
Moulding shrinkage, parallel Moulding shrinkage, normal	0.3/- 0.9/-	% %	ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties	dry/cond.		
Tensile modulus Tensile stress at break, 5mm/min Tensile strain at break, 5mm/min Flexural modulus Charpy impact strength, 23°C Charpy notched impact strength, 23°C Charpy notched impact strength, -30°C Charpy notched impact strength, -40°C Poisson's ratio [A]: Assessed	10900/7500 194/130 <sup>[A]</sup> 4/6 8900/- 95/100 16/18 10/10 12.3/- 0.34/0.34	MPa MPa % MPa kJ/m <sup>2</sup> kJ/m <sup>2</sup> kJ/m <sup>2</sup>	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 178 ISO 179/1eU ISO 179/1eA ISO 179/1eA ISO 179/1eA
Thermal properties	dry/cond.		
Melting temperature, 10°C/min Temperature of deflection under load, 1.8 MPa	245/* 225/*	°C °C	ISO 11357-1/-3 ISO 75-1/-2
Flammability FMVSS Class Burning rate, Thickness 1 mm	B <80	mm/min	ISO 3795 (FMVSS 302) ISO 3795 (FMVSS 302)



### Zytel® 74G33W NC010

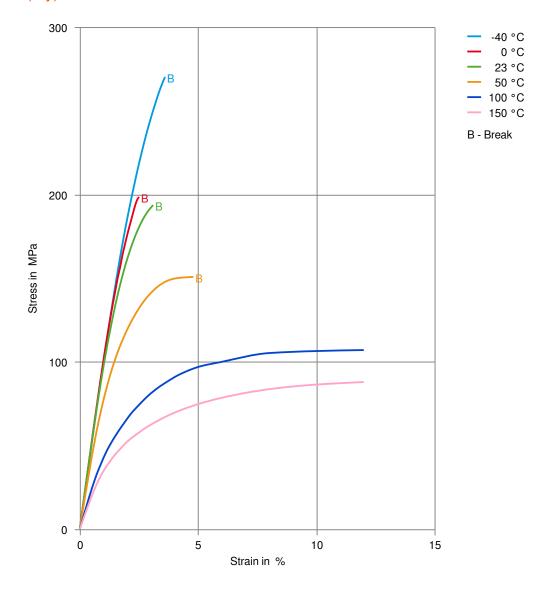
### NYLON RESIN

Physical/Other properties	dry/cond.		
Density	1390/-	kg/m <sup>3</sup>	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 Hold pressure range Hold pressure time	2 - 4 ≤0.2 290 280 300 ≤0.2 100 70 120 50 - 100 3	% °C °C °C m/s °C °C °C MPa s/mm	
Ejection temperature	210		
Characteristics			
Processing	Injection Moulding		
Automotive			
OEM Ford General Motors	STANDARD WSS-M98P13-E Natural; Part Specific Approval, Please (		
Stellantis - Chrysler	Your CE Representative For More Detai MS.50017 / CPN-4075	ns. Natural	

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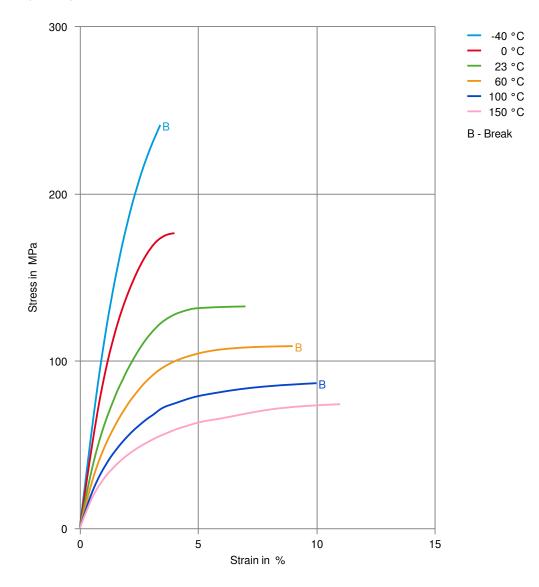


#### Stress-strain (dry)



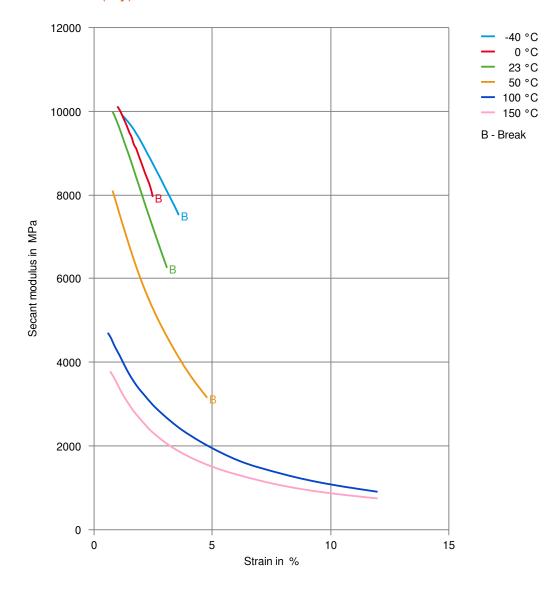


#### Stress-strain (cond.)



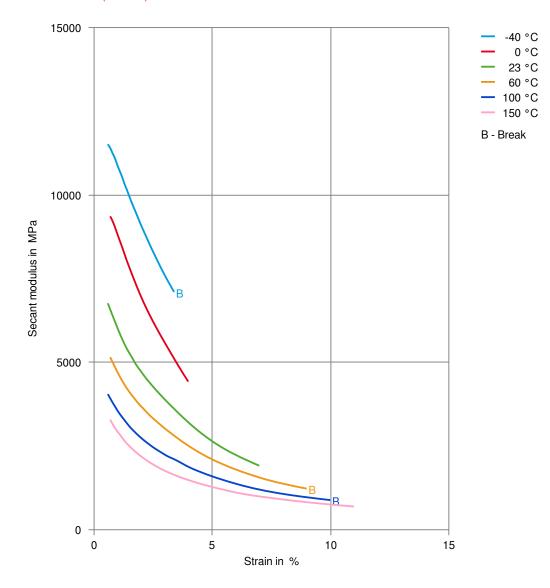


### Secant modulus-strain (dry)





#### Secant modulus-strain (cond.)



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#### Revised: 2024-08-12 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. 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. Contained in this publication is accurate; however, we do not assume any liability of the dusers 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 industion for handling each material th

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