Selar® PA-3426R NC010

HIGH PERFORMANCE POLYAMIDE RESIN

Selar® PA-3426R NC010 an amorphous, transparent polyamide resin with good barrier properties to gases, water, solvents and essential oils, developed for food contact film packaging applications.

Product information

Resin Identification	PA6I/6T	ISO 1043
Part Marking Code	PA6I/6T	ISO 11469
Part Marking Code	PPA	SAE J1344

Rheological properties

	dry/cond.		
Molding shrinkage, parallel	0.4 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5 / -	%	ISO 294-4, 2577

Typical mechanical properties

	dry/cond.		
Tensile modulus	421000 / -	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	15000 / -	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	6 / -	%	ISO 527-1/-2
Nominal strain at break	>50 / -	%	ISO 527-1/-2
Charpy impact strength, 23°C	214 / -	ftlb/in²	ISO 179/1eU
Charpy impact strength, -40°C	228 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	0.571 / -	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -40°C	0.523 / -	ftlb/in²	ISO 179/1eA

Thermal properties

	dry/cond.		
Glass transition temperature, 10°C/min	257 / -	°F	ISO 11357-1/-3

Electrical properties

	dry/cond.		
Relative permittivity, 100Hz	4.6 / -		IEC 62631-2-1
Relative permittivity, 1000Hz	4.5 / -		IEC 62631-2-1
Relative permittivity, 1MHz	4.1 / -		IEC 62631-2-1
Dissipation factor, 100Hz	95 / -	E-4	IEC 62631-2-1
Dissipation factor, 1000Hz	160 / -	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	230 / -	E-4	IEC 62631-2-1
Volume resistivity	>1E13 / -	Ohm.m	IEC 62631-3-1
Electric strength	584 / -	kV/in	IEC 60243-1
Electric Strength, Short Time, 1mm	584 / -	V/mil	IEC 60243-1

Physical/Other properties

	dry/cond.		
Density	0.043 / -	lb/in³	ISO 1183

Injection

Hold Pressure Time (h is the max. wall thickness of the part in mm)		h²+2	s

Selar® PA-3426R NC010

HIGH PERFORMANCE POLYAMIDE RESIN

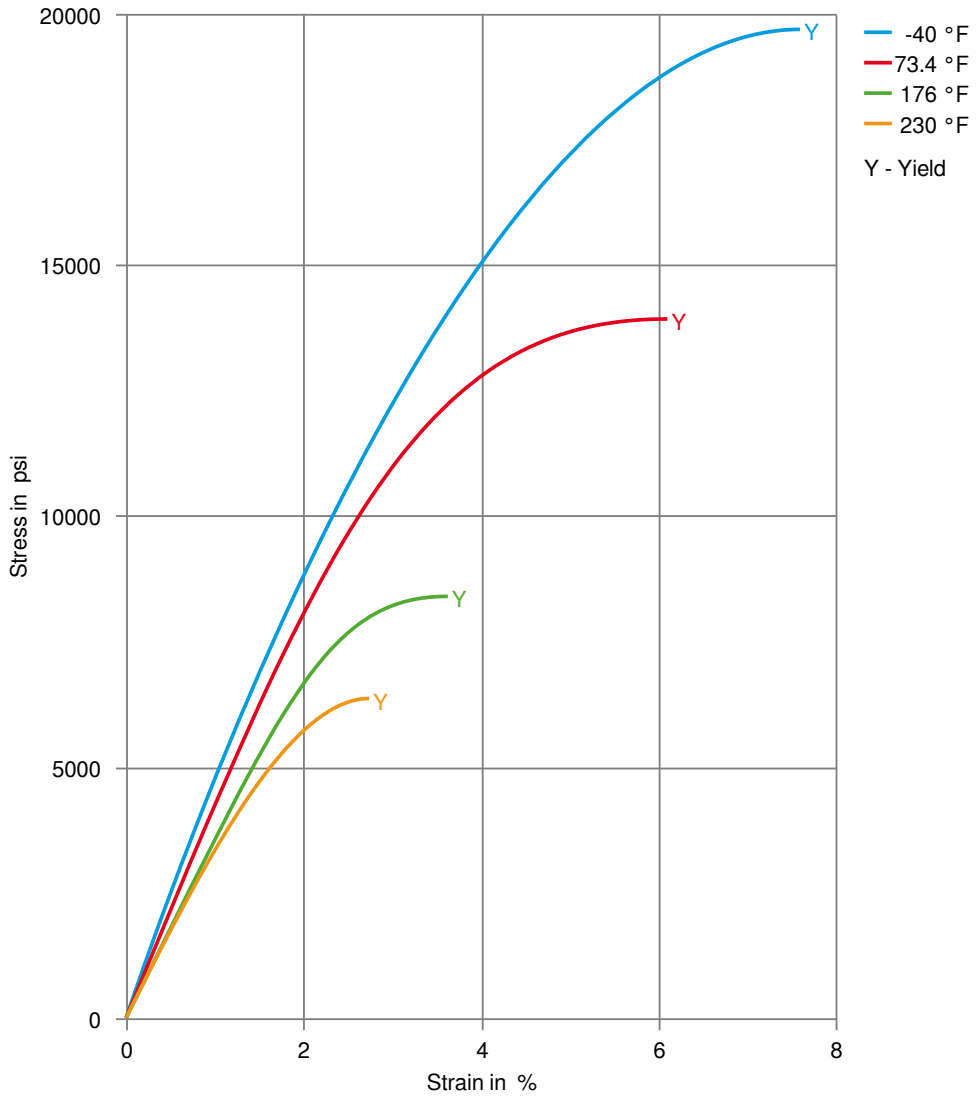
Extrusion

Drying Temperature	167 - 212 °F
Drying Time, Dehumidified Dryer	2 - 6 h
Processing Moisture Content	≤0.05 %
Melt Temperature Optimum	473 °F
Melt Temperature Range	446 - 536 °F

Characteristics

Processing	Film Extrusion
Special characteristics	Transparent

Stress-strain (dry)

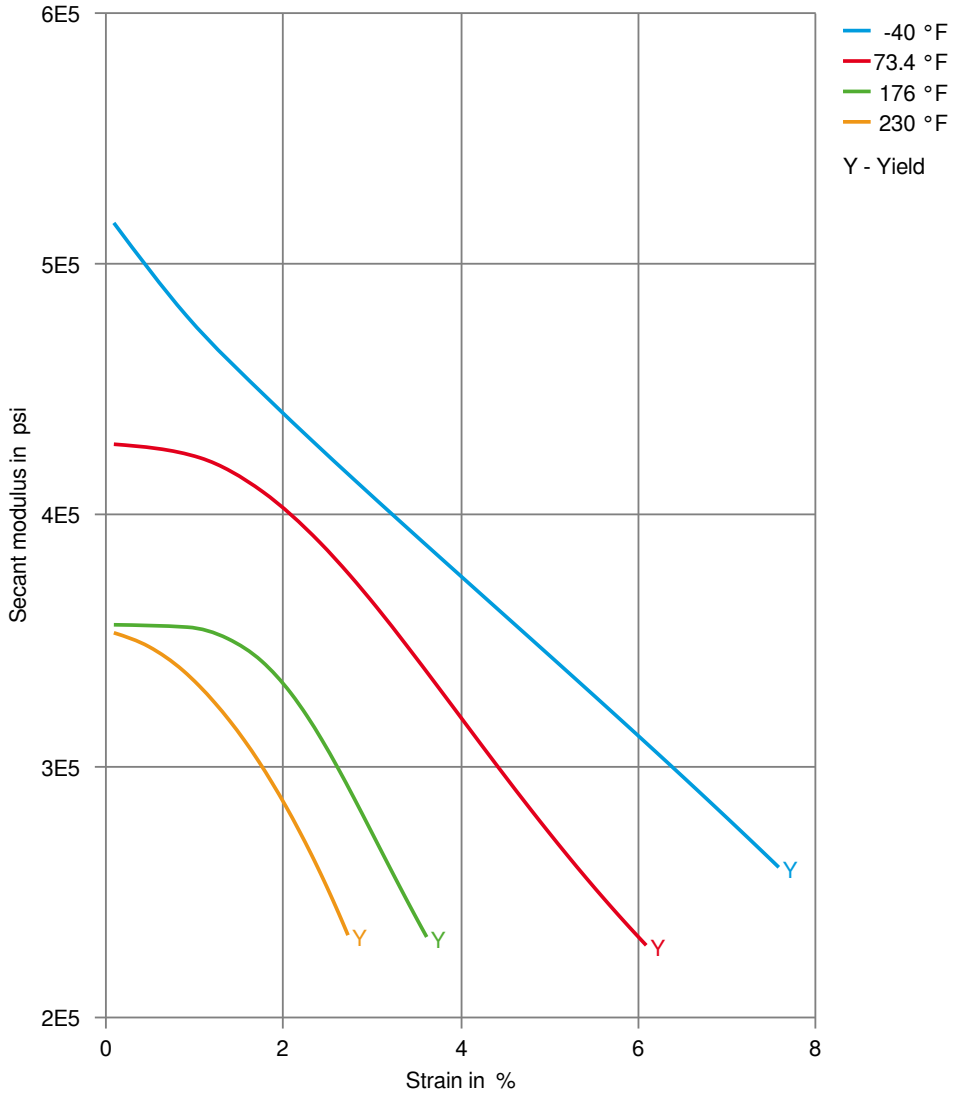


Revised: 2026-06-18 Source: Celanese Materials Database

Selar® PA-3426R NC010

HIGH PERFORMANCE POLYAMIDE RESIN

Secant modulus-strain (dry)



Revised: 2026-06-18 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.