

# DuPont™ Zytel® FN718 BK230A

## NYLON RESIN

**Product Information**

Zytel® FN718 BK230A is a flexible polyamide 66 resin.

General information			
	Value	Unit	Test Standard
Resin Identification	PA66-F	-	ISO 1043
Part Marking Code	PA66-F	-	ISO 11469
Mechanical properties			
	dry / cond	Unit	Test Standard
Tensile Modulus	900 / 440	MPa	ISO 527-1/-2
Stress at 50% strain	33 / 21	MPa	ISO 527-1/-2
Strain at break	>50 / >50	%	ISO 527-1/-2
Flexural Modulus	900 / -	MPa	ISO 178
Charpy notched impact strength			ISO 179/1eA
73°F	105 / -	kJ/m <sup>2</sup>	
-40°F	30 / -	kJ/m <sup>2</sup>	
Izod notched impact strength			ISO 180/1A
73°F	95 / -	kJ/m <sup>2</sup>	
-40°F	25 / -	kJ/m <sup>2</sup>	
Thermal properties			
	dry / cond	Unit	Test Standard
Melting temperature, 18°F/min	263 / *	°C	ISO 11357-1/-3
Temp. of deflection under load			ISO 75-1/-2
260 psi	50 / *	°C	
65 psi	68 / *	°C	
Flammability			
	Value	Unit	Test Standard
FMVSS Class	B	-	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<100	mm/min	ISO 3795 (FMVSS 302)
Other properties			
	dry / cond	Unit	Test Standard
Humidity absorption, 80mil	1.4 / *	%	Sim. to ISO 62
Density	1040 / -	kg/m <sup>3</sup>	ISO 1183
Injection			
	Value	Unit	Test Standard
Drying Recommended	yes	-	-
Drying Temperature	≥80	°C	-
Drying Time, Dehumidified Dryer	2 - 4	h	-
Processing Moisture Content	≤0.2	%	-
Melt Temperature Optimum	285	°C	-
Min. melt temperature	275	°C	-
Max. melt temperature	295	°C	-
Mold Temperature Optimum	60	°C	-
Min. mold temperature	40	°C	-
Max. mold temperature	80	°C	-

**Characteristics**

Processing	• Injection Molding	• Profile Extrusion
Delivery form	• Pellets	
Regional Availability	• North America • Europe	• Asia Pacific • South and Central America • Near East/Africa • Global

To find out more, visit [DuPont Performance Polymers](#) or contact nearest DuPont location.

North America

Asia Pacific

Europe/Middle East/Africa

DONGGUAN FUMEI PLASTICS CO.,LTD.

TEL: +86 0769-82339888 / 87798999

EMAIL: fumei@foomx.com

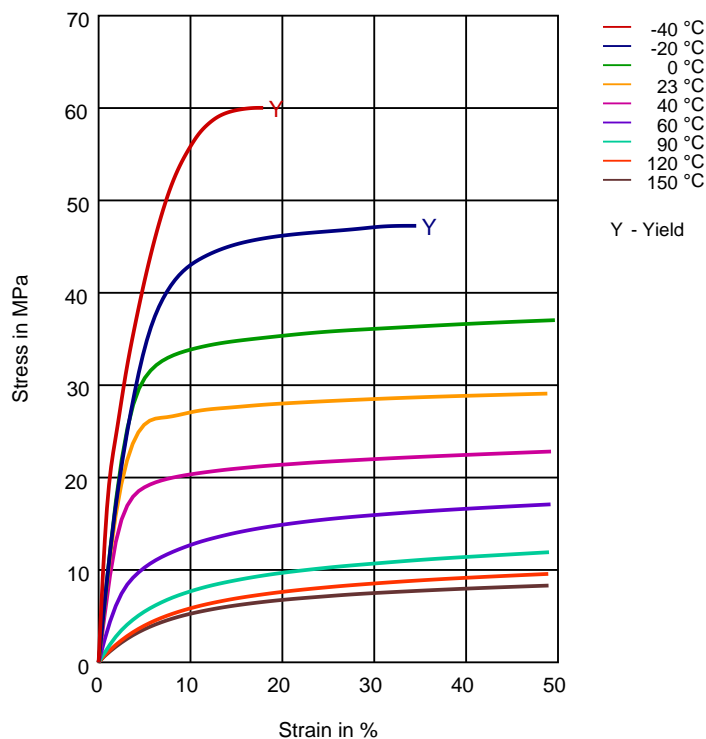


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Diagrams

Stress-strain (dry)



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Asia Pacific

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Europe/Middle East/Africa

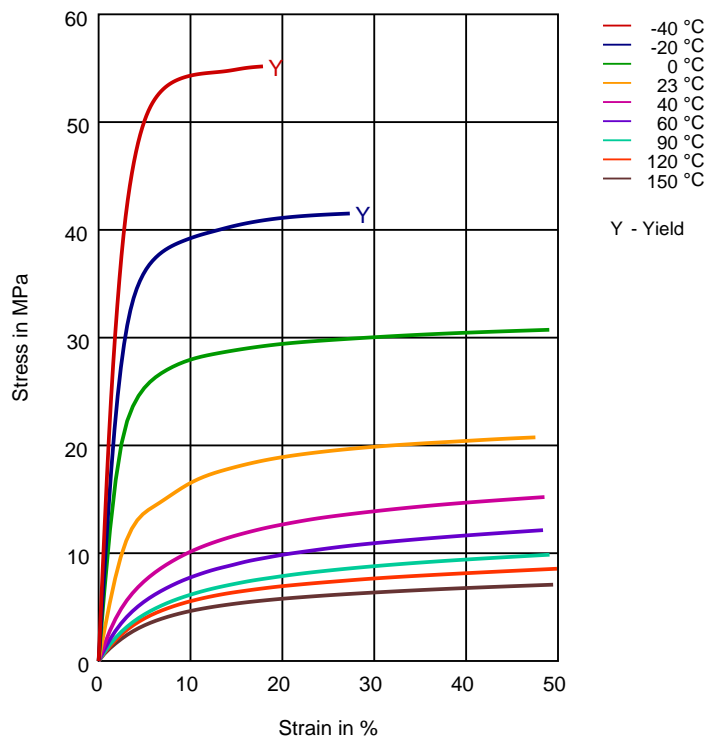
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## NYLON RESIN

Stress-strain (cond.)



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Asia Pacific

TEL: +86 0769-82339888 / 87798999

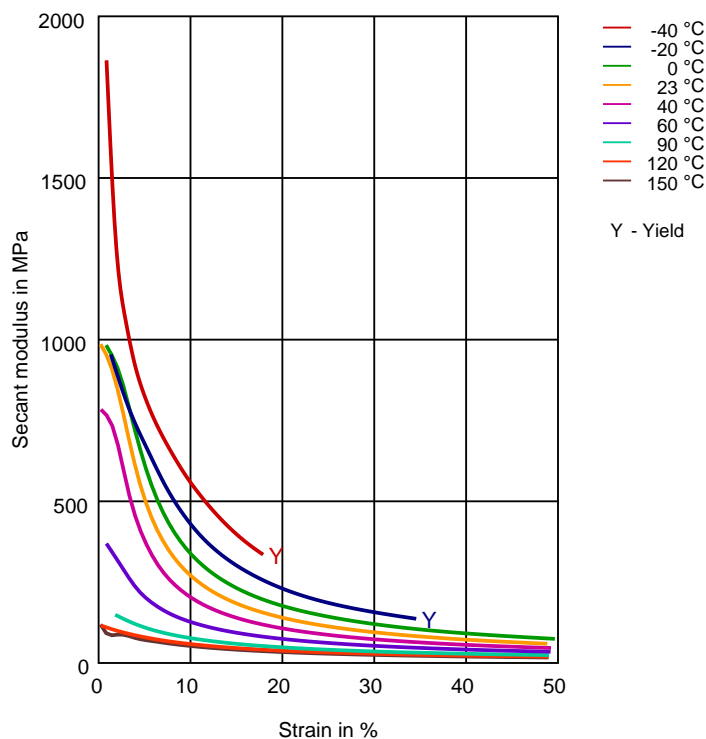
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# DuPont™ Zytel® FN718 BK230A

## NYLON RESIN

Secant modulus-strain (dry)



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EMAIL: fumei@foomx.com

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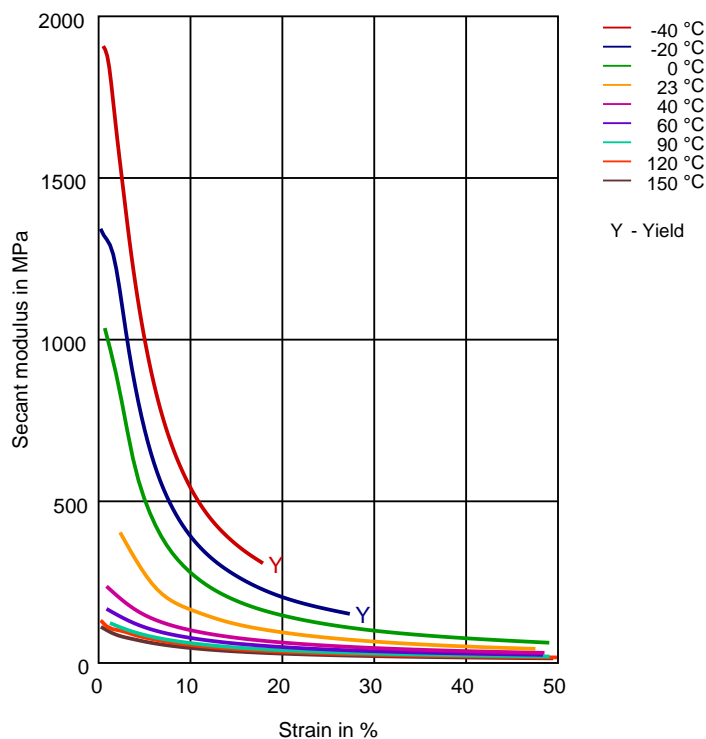
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# DuPont™ Zytel® FN718 BK230A NYLON RESIN

Secant modulus-strain (cond.)



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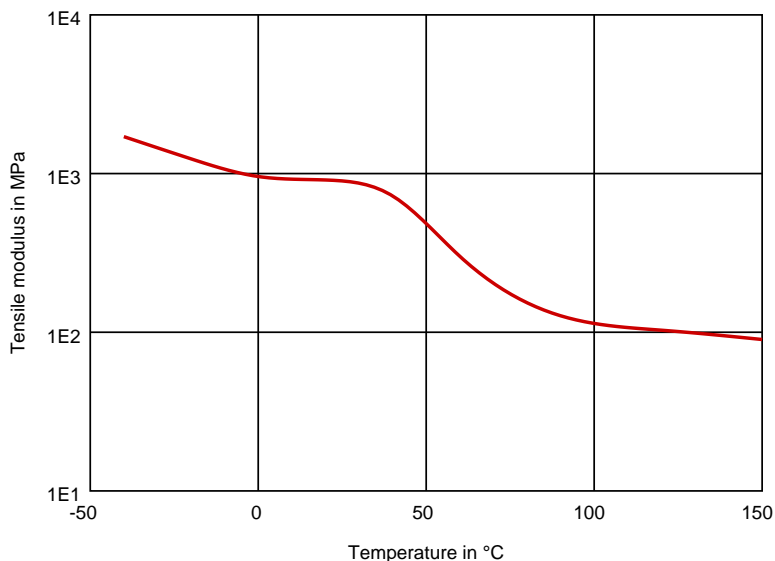
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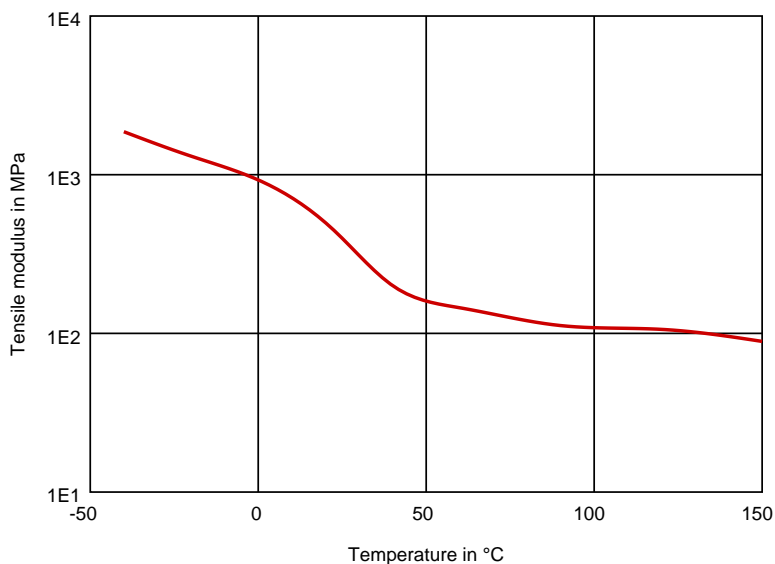
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## NYLON RESIN

Tensile modulus-temperature (dry)



Tensile modulus-temperature (cond.)



Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 160 mil (Hytrel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

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