

DuPont™ Zytel® RS LC2600 BK043A

NYLON RESIN

Product Information

Zytel® RS LC2600 BK043A is an unreinforced, plasticized, high viscosity, biobased long chain polyamide resin developed for air brake tubes and fluid handling applications.

General information	Value	Unit	Test Standard
Resin Identification	PA-IP	-	ISO 1043
Part Marking Code	PA-IP	-	ISO 11469
Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	1150 / 660	MPa	ISO 527-1/-2
Yield stress	37.2 / 35.5	MPa	ISO 527-1/-2
Yield strain	19 / 30	%	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Stress at Break, 23°C, 50mm/min	36 / 30	MPa	ISO 527-1/-2
Flexural Modulus	900 / 470	MPa	ISO 178
Flexural Stress at 3.5%	35 / 18	MPa	ISO 178
Charpy impact strength, 73°F	N / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength			ISO 179/1eA
73°F	65 ^[1] / -	kJ/m ²	
-22°F	11 / -	kJ/m ²	
1: Partial break			
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, 18°F/min	220 / *	°C	ISO 11357-1/-3
Glass transition temperature, 18°F/min	40 / 30	°C	ISO 11357-1/-2
Temp. of deflection under load, 260 psi	43 / *	°C	ISO 75-1/-2
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 / *	%	Sim. to ISO 62
Density	1050 / -	kg/m ³	ISO 1183
Extrusion	Value	Unit	Test Standard
Drying Temperature	75 - 80	°C	-
Drying Time, Dehumidified Dryer	3 - 4	h	-
Processing Moisture Content	≤0.06	%	-
Melt Temperature Optimum	240	°C	-
Melt Temperature Range	230 - 245	°C	-

Characteristics

Processing	• Injection Molding	• Profile Extrusion	• Other Extrusion
Delivery form	• Pellets		
Additives	• Plasticizer		
Special characteristics	• Heat stabilized or stable to heat		
Regional Availability	• North America • Europe	• Asia Pacific • South and Central America	• Near East/Africa • Global

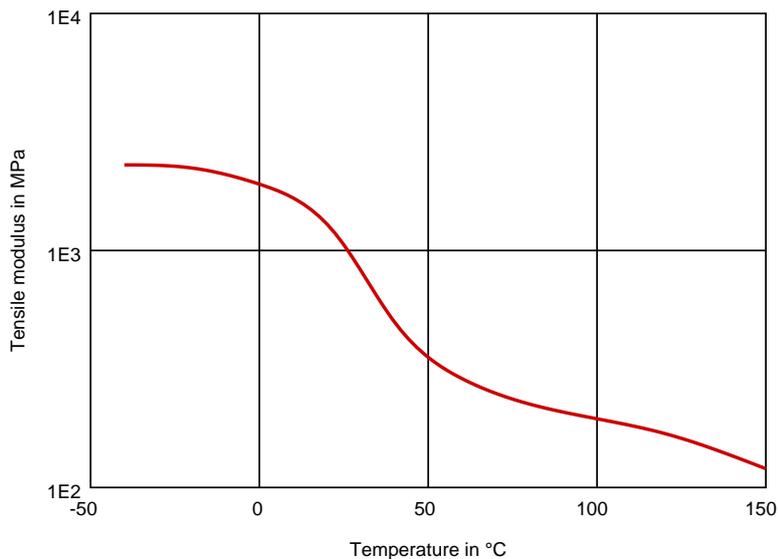


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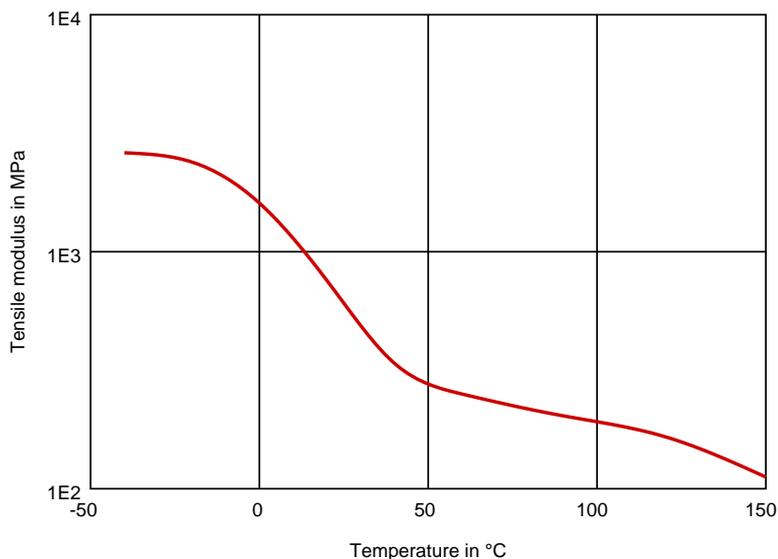
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Diagrams

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

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

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measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

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