Zytel® RS LC2600 BK043A

LONG CHAIN POLYAMIDE RESIN

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

Product information

Resin Identification	PA-IP	ISO 1043
Part Marking Code	>PA-IP<	ISO 11469
ISO designation	ISO 16396-PA-IP,,M1CG1H,S14-010	

Typical mechanical properties

	dry/cond.		
Tensile modulus	167000 / 95700	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	5400 / 5100	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	19 / 30	%	ISO 527-1/-2
Tensile stress at break, 50mm/min	5220 / 4350	psi	ISO 527-1/-2
Nominal strain at break	>50[1] / >50[2]	%	ISO 527-1/-2
Flexural modulus	131000 / 68200	psi	ISO 178
Flexural stress at 3.5%	5080 / 2610	psi	ISO 178
Charpy impact strength, 23 °C	N / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23 °C	30.9[3] / -	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -30 °C	5.23 / -	ftlb/in²	ISO 179/1eA

[1]: 290%

[2]: 330%

[3]: Partial break

Thermal properties

	dry/cond.		
Melting temperature, 10 °C/min	428 / *	°F	ISO 11357-1/-3
Glass transition temperature, 10 °C/min	104 / 86	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	109 / *	°F	ISO 75-1/-2

Flammability

FMVSS Class	B		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<80	in/min	ISO 3795 (FMVSS 302)

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1 / *	%	Sim. to ISO 62
Density	0.0379 / -	lb/in³	ISO 1183

Injection

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

Extrusion

Drying Temperature	167 - 176	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.06	%
Melt Temperature Optimum	464	°F
Melt Temperature Range	446 - 473	°F

Revised: 2025-08-01 Source: Celanese Materials Database

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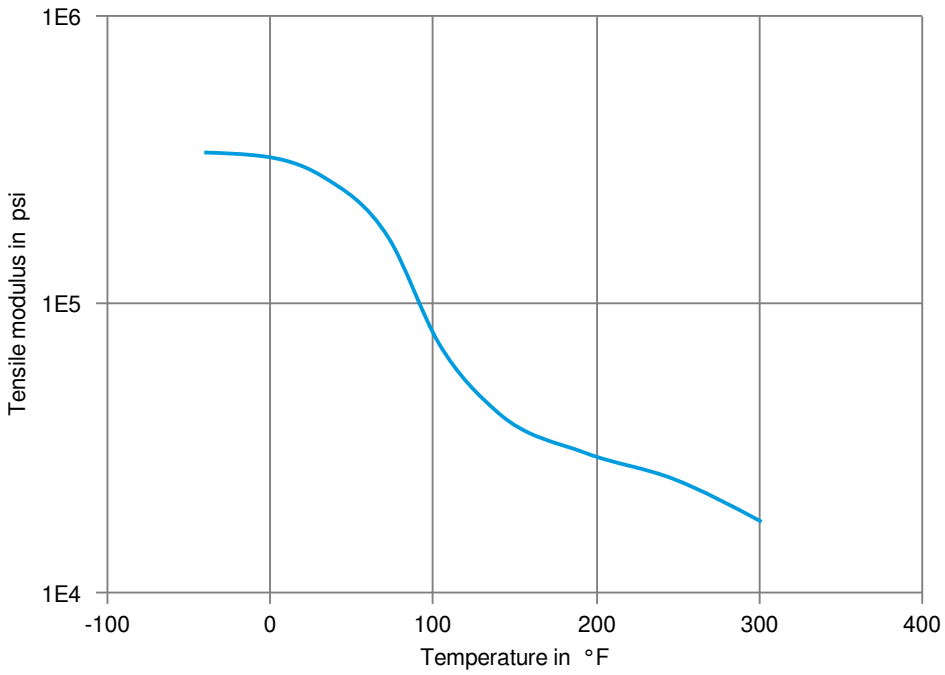
Characteristics

Processing	Injection Molding, Extrusion, Other Extrusion
Additives	Plasticizer
Special characteristics	Heat stabilized or stable to heat
Sustainability	Bio-Content

Additional information

Profile extrusion

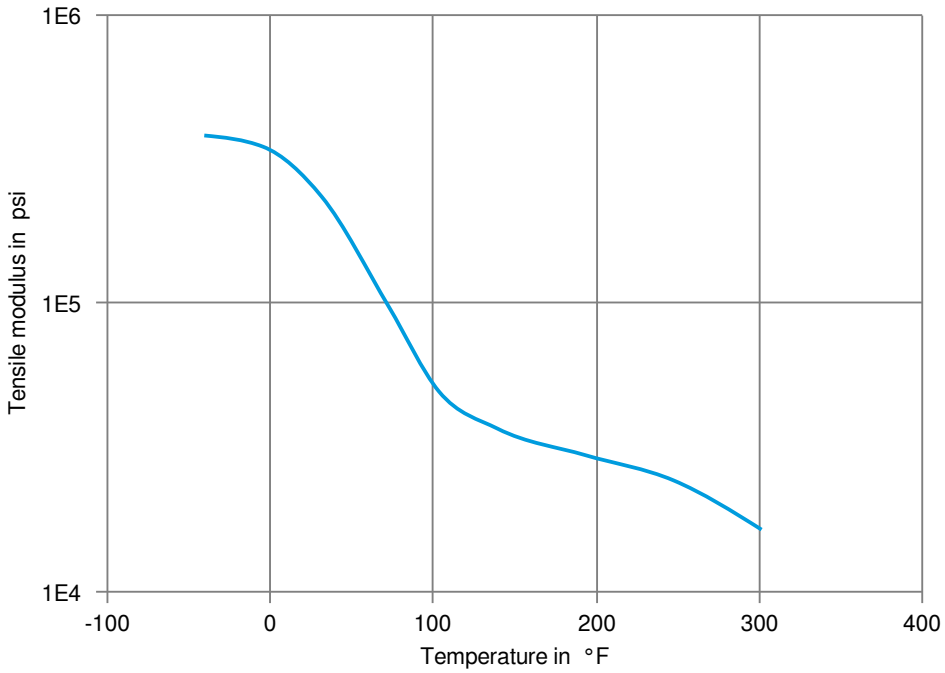
Tensile modulus-temperature (dry)



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Tensile modulus-temperature (cond.)



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