Zytel® LC7601 BK010 (PRELIMINARY)

LONG CHAIN POLYAMIDE RESIN

Zytel® LCPA long chain polyamide resins provide an innovative and growing portfolio of flexible polymers with excellent thermal, chemical, and hydrolysis resistance. The diverse selection of Zytel® LCPA grades is targeted for a range of performance characteristics, balancing temperature resistance, flexibility and low permeation.

Zytel® LC7601 BK010 is a flexible, toughened, plasticized black polyamide resin for extrusion. It has low moisture absorption, excellent chemical resistance and good heat resistance.

Product information

Resin Identification	PA-IP	ISO 1043
Part Marking Code	>PA-IP<	ISO 11469
ISO designation	ISO 16396-PA-IP,,ECG1H,S10-005	

Rheological properties

	dry/cond.		
Molding shrinkage, parallel	2.1 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3 / -	%	ISO 294-4, 2577
Melt viscosity, @ 1000 sec-1, 250 °C	1500 / *	P	ISO 11443

Typical mechanical properties

	dry/cond.		
Tensile modulus	72500 / -	psi	ISO 527-1/-2
Flexural modulus	72500 / -	psi	ISO 178
Charpy impact strength, 23 °C	N / -	ftlb/in²	ISO 179/1eU
Charpy impact strength, -30 °C	N / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23 °C	54.7 / -[P]	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -40 °C	6.18 / -	ftlb/in²	ISO 179/1eA
Izod notched impact strength, 23 °C	43.8 / -	ftlb/in²	ISO 180/1A
Izod notched impact strength, -40 °C	6.18 / -	ftlb/in²	ISO 180/1A

[P]: Partial Break

Thermal properties

	dry/cond.		
Melting temperature, 10 °C/min	408 / *	°F	ISO 11357-1/-3
Glass transition temperature, 10 °C/min	122 / 104	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	109 / *	°F	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	156 / *	°F	ISO 75-1/-2
Thermal conductivity of melt	0.17[DS]	W/(m K)	ISO 22007-2
Specific heat capacity of melt	2700[DS]	J/(kg K)	ISO 22007-4

[DS]: Derived from similar grade

Flammability

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

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Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	0.8 / *	%	Sim. to ISO 62
Density	0.0372 / -	lb/in³	ISO 1183

Injection

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

Extrusion

Drying Temperature	167 - 176	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.06	%
Melt Temperature Optimum	437	°F
Melt Temperature Range	428 - 446	°F

Automotive

OEM	ADDITIONAL INFORMATION
Renault-Nissan	UB16c, No Spec, Special Part Approval, See Your CE Account Manager.

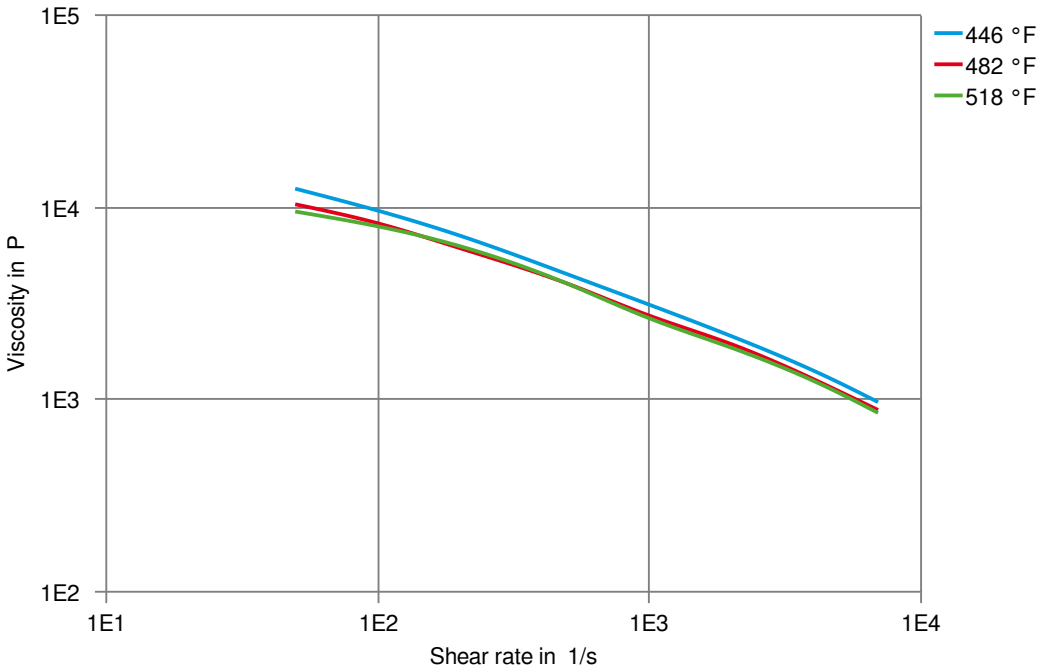
Characteristics

Processing	Film Extrusion, Extrusion, Sheet Extrusion, Other Extrusion, Coating, Casting
Additives	Plasticizer
Special characteristics	High impact or impact modified, Light stabilized or stable to light, Heat stabilized or stable to heat

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Viscosity-shear rate

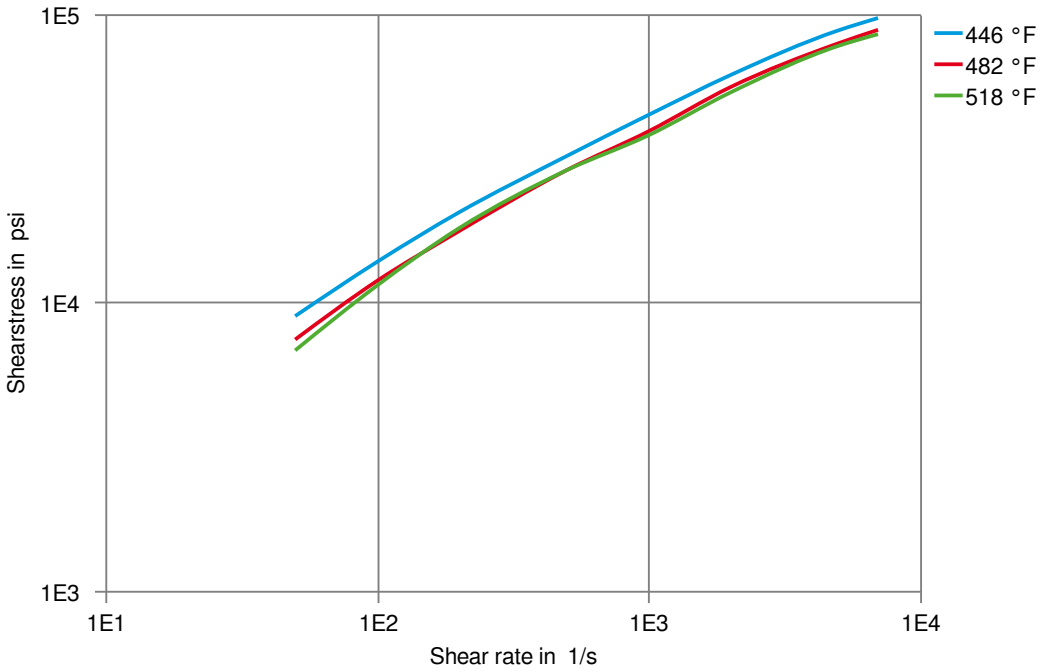


Revised: 2025-04-23 Source: Celanese Materials Database

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Shearstress-shear rate



Revised: 2025-04-23 Source: Celanese Materials Database

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.
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