

ISO 3795 (FMVSS 302)

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 Part Marking Code ISO designation	PA-IP >PA-IP< ISO 16396-PA-IP,,ECG1H,S10-005		ISO 1043 ISO 11469
Rheological properties	dry/cond.		
Moulding shrinkage, parallel	2.1/-	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.3/-	%	ISO 294-4, 2577
Melt viscosity, @ 1000 sec-1, 250°C	150/*	Pa.s	ISO 11443
Typical mechanical properties	dry/cond.		
Tensile modulus	500/-	MPa	ISO 527-1/-2
Flexural modulus	500/-	MPa	ISO 178
Charpy impact strength, 23°C	N/-	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	N/	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	115/- ^[P]	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -40°C	13/-	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	92/-	kJ/m²	ISO 180/1A
Izod notched impact strength, -40°C	13.0/-	kJ/m²	ISO 180/1A
Poisson's ratio	0.47/-		
[P]: Partial Break			
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	209/*	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	50/40	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	43/*	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	69/*	°C	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	В		ISO 3795 (FMVSS 302)
D : Till 1			100 0705 (FM//00 002)

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<80 mm/min

Revised: 2024-09-27 Source: Celanese Materials Database

Burning rate, Thickness 1 mm



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Physical/Other properties

dry/cond.

Humidity absorption, 2mm $0.8/^* \quad \% \qquad \qquad \text{Sim. to ISO 62}$ Density $1030/- \qquad \text{kg/m}^3 \qquad \qquad \text{ISO 1183}$

Extrusion

Characteristics

Processing Film Extrusion, Extrusion, Sheet Extrusion, Other Extrusion, Coatable, Casting

Delivery form Pellets
Additives Plasticiser

Special characteristics High impact or impact modified, Light stabilised or stable to light, Heat stabilised or

stable to heat

Automotive

OEM ADDITIONAL INFORMATION

Renault-Nissan UB16c, No Spec, Special Part Approval, See

Your CE Account Manager.

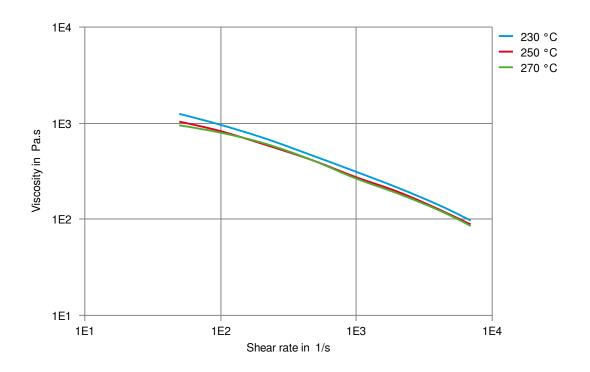
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Zytel® LC7601 BK010 (PRELIMINARY) LONG CHAIN POLYAMIDE RESIN

Viscosity-shear rate



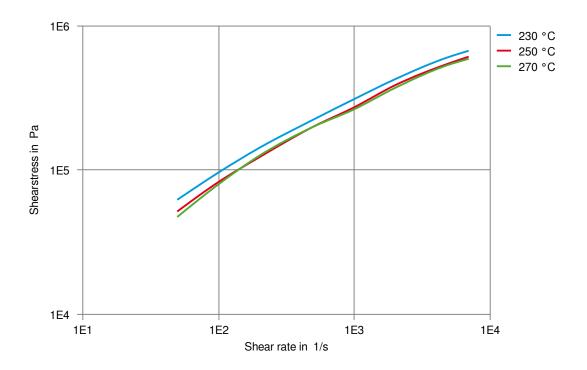
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Zytel® LC7601 BK010 (PRELIMINARY) LONG CHAIN POLYAMIDE RESIN

Shearstress-shear rate



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

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. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design 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, pr

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