



Zytel® LC7602 BK010A

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® LC7602 BK010A is a flexible, toughened and plasticized black polyamide resin intended for extrusion applications.

Product information

| 1 Todact information | | | |
|--|-----------------------------------|-------------------|----------------------|
| Resin Identification | PA-IP | | ISO 1043 |
| Part Marking Code | >PA-IP< | | ISO 11469 |
| ISO designation | ISO 16396-PA*-HIP,,M1CG1H,S14-007 | | |
| .cc accignance | | ,,, | |
| Typical mechanical properties | dry/cond. | | |
| Tensile modulus | 670/- | MPa | ISO 527-1/-2 |
| Tensile stress at 50% strain | 28/- | MPa | ISO 527-1/-2 |
| Flexural modulus | 650/- | MPa | ISO 178 |
| Charpy impact strength, 23°C | N/N | kJ/m² | ISO 179/1eU |
| Charpy impact strength, -30°C | N/- | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength, 23°C | 103/- | kJ/m² | ISO 179/1eA |
| Charpy notched impact strength, -40 °C | 12/- | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength, 23°C | 82/- | kJ/m² | ISO 180/1A |
| Izod notched impact strength, -40°C | 15.0/- | kJ/m² | ISO 180/1A |
| Poisson's ratio | 0.46/- | | |
| | | | |
| Thermal properties | dry/cond. | | |
| Melting temperature, 10 ° C/min | 210/* | °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 | 40/* | °C | ISO 75-1/-2 |
| Temperature of deflection under load, 0.45 MPa | 48/* | °C | ISO 75-1/-2 |
| , | | | |
| Flammability | | | |
| FMVSS Class | В | | ISO 3795 (FMVSS 302) |
| Burning rate, Thickness 1 mm | 28 | mm/min | ISO 3795 (FMVSS 302) |
| , | | | , |
| Physical/Other properties | dry/cond. | | |
| Density | 1030/- | kg/m³ | ISO 1183 |
| Extrusion | | | |
| | 75 - 80 | °C | |
| Drying Temperature | 73-80 | | |

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3-4 h

≤0.06 % 225 °C

220 - 230 °C

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Drying Time, Dehumidified Dryer

Processing Moisture Content

Melt Temperature Optimum

Melt Temperature Range





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Characteristics

Processing Injection Moulding, Film Extrusion, Extrusion, Sheet Extrusion, Other Extrusion,

Coatable, Casting

Delivery form Pellets

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

stable to heat

Plasticiser

Automotive

Additives

OEM STANDARD ADDITIONAL INFORMATION

Hyundai MS211-35 Type C
Mercedes-Benz DBL5406.00 PA12

Stellantis B62 0300 / 01994_16_00190

61/212M/215E-/H0412(FreecorDSC)/11

Chemical Media Resistance

Salt solutions

✓ Zinc Chloride solution (50% by mass), 23°C

Othe

- ✓ Ethylene Glycol (50% by mass) in water, 108°C
- ✓ Coolant Glysantin G48, 1:1 in water, 125°C

Symbols used:

possibly resistant

Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).

x not recommended - see explanation

Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

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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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