

Unmodified cast nylon 6 grade exhibiting characteristics which come very close to those of Ertalon 66 SA. It combines high strength, stiffness and hardness with good creep and wear resistance, heat aging properties and machinability.

Physical proportios (indicative values

|) | | | |
|--------------|---|--|--|
| | Test methods | Units | VALUES |
| | - | - | natural (ivory)/ |
| | | | black |
| | ISO 1183-1 | g/cm³ | 1.15 |
| | | | |
| | ISO 62 | mg | 44 / 83 |
| | ISO 62 | % | 0.65 / 1.22 |
| | - | % | 2.2 |
| | - | % | 6.5 |
| | | | |
| | ISO 11357-1/-3 | °C | 215 |
| | ISO 11357-1/-2 | °C | - |
| | - | W/(K.m) | 0.29 |
| | | | |
| | - | m/(m.K) | 80 x 10 ⁻⁶ |
| | - | m/(m.K) | 90 x 10 ⁻⁶ |
| | | | |
| + | ISO 75-1/-2 | °C | 80 |
| | | | |
| | - | / / | 170 |
| | - | | 105/90 |
| | - | °C | -30 |
| | 100 4500 410 | 0/ | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| | ISO 4589-1/-2 | % | 25 |
| | - / | 1/2 | HB / HB/ |
| | | () 0 | // 17 |
| | 100 507 410 | 1.5 | 100 |
| | | | 861- |
| | | / | 55 |
| 1 | 7 | // | 888 |
| | | 11 11 | 25 |
| | | 11 12 \ | > 50 |
| 7 | | | 3600 |
| 1 | | - V | 1750 |
| 71 | 100 321-11-2 | WII a | 0 |
| 4 | 150,604 | MPa | 34 / 64 / 93 |
| | | | no break |
| | | | 3 |
| | | | 165 |
| · | | | M 88 |
| | 100 2000 2 | | III OO |
| + | IEC 60243-1 | kV/mm | 25 |
| | | | 17 |
| | | | > 10 ¹⁴ |
| ++ | 7 | | > 10 ¹² |
| + / | | Ohm | > 10 ¹³ |
| +4 | | | > 10 ¹² |
| + | IEC 60250 | - | 3.6 |
| ++ | IEC 60250 | - | 6.6 |
| + | IEC 60250 | - | 3.2 |
| | | | 3.7 |
| ++ | IEC 60250 | - | |
| ++ | IEC 60250 | - | 0.012 |
| ++ | | - | 0.012 0.14 |
| + | IEC 60250 | - - - | |
| + ++ | IEC 60250 IEC 60250 | - - - - | 0.14 |
| + ++ + | IEC 60250 IEC 60250 IEC 60250 | - - - - - | 0.14 0.016 |
| | + | ISO 1183-1 ISO 62 ISO 62 ISO 62 ISO 62 ISO 62 ISO 62 ISO 11357-1/-2 ISO 11357-1/-2 ISO 11357-1/-2 ISO 527-1/-2 ISO 6004 ISO 60033 ISO 60093 IEC 60093 IEC 60093 IEC 60093 IEC 60093 IEC 600550 IEC 60250 IEC 60250 | ISO 1183-1 g/cm² |

Legend:

- values referring to dry material
- values referring to material in equilibrium with the standard atmosphere 23 $^{\circ}\text{C}$ / 50 $^{\circ}\text{RH}$ (mostly derived from literature)
- According to method 1 of ISO 62 and done on discs Ø 50 mm x 3 (1)
- (2) The figures given for these properties are for the most part derived from raw material supplier data and other publications
- Values for this property are only given here for amorphous materials and not for semi-crystalline ones.
- Only for short time exposure (a few hours) in applications where no or only a very low load is applied to the mater
 - Temperature resistance over a period of 5,000/20,000 hours. After these periods of time, there is a decrease in tensile strength – measured at 23 °C – of about 50 % as compared with the original value. The temperature values given here are thus based on the thermal-oxidative degradation which takes place and causes a reduction in properties. Note, however, that the maximum allowable service temperature depends in many cases essentially on the duration and the magnitude of the mechanical stresses to which the material is subjected.
- Impact strength decreasing with decreasing temperature, the minimum allowable service temperature is practically mainly determined by the extent to which the material is subjected to impact. The value given here is based on unfavourable impact conditions and may consequently not be considered as being the absolute practical
- These estimated ratings, derived from raw material supplier data and other publications, are not intended to reflect hazards presented by the material under actual fire conditions. There is no 'UL File Number available for Ertalon 6 PLA stock shapes.
- The figures given for the properties of dry material (+) are for the most part average values of tests run on test specimens machined out of rods \varnothing 50 mm. Except for the hardness tests, the test specimens were then taken from an area mid between centre and outside diameter, with their length in longitudinal direction of the rod. Test specimens: Type 1 B
- Test speed: 50 mm/min [chosen acc. to ISO 10350-1 as a function of the ductile behaviour of the material (tough or brittle)]
- Test speed: 1 mm/min
- Test specimens: cylinders Ø 8 mm x 16 mm (12)
- Pendulum used: 4 J
- Measured on 10 mm thick test specimens (discs), mid between centre and outside diameter.
- Electrode configuration: \varnothing 25 / \varnothing 75 mm coaxial cylinders ; in transformer oil according to IEC 60296; 1 mm thick test specimens.
- This table, mainly to be used for comparison purposes, is a valuable help in the choice of a material. The data listed here fall within the normal range of product properties. However, they are not guaranteed and they should not be used to establish material specification limits nor used alone as the basis of design.

AVAILABILITY: see "Delivery Programme"

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