

TOPAS[®] 8007X10

Cyclic Olefin Copolymer (COC)

Injection molding grade with superior transparency in the UV range Range of application: applications which require high UV-transparency, e.g. diagnostic applications (DNA analytics) with microtiter plates or cuvettes

| hysical Properties lensity lelt volume rate (MVR) /ater absorption (23°C-sat) lechanical Properties ensile modulus (1mm/min) ensile stress at yield (50mm/min) | 1010 32 0,01 2600 63,0 4,5 20 | kg/m³ cm³/10min % MPa MPa % | ISO 1183 ISO 1133 ISO 62 ISO 527-2/1A ISO 527-2/1A |
|--|---|--|--|
| lelt volume rate (MVR) /ater absorption (23°C-sat) lechanical Properties ensile modulus (1mm/min) | 32 0,01 2600 63,0 4,5 | cm³/10min % MPa MPa | ISO 1133 ISO 62 ISO 527-2/1A |
| Vater absorption (23°C-sat) lechanical Properties ensile modulus (1mm/min) | 0,01 2600 63,0 4,5 | MPa MPa | ISO 62 ISO 527-2/1A |
| lechanical Properties ensile modulus (1mm/min) | 2600 63,0 4,5 | MPa MPa | ISO 527-2/1A |
| ensile modulus (1mm/min) | 63,0 4,5 | MPa | |
| | 63,0 4,5 | MPa | |
| ensile stress at yield (50mm/min) | 4,5 | | ISO 527-2/1A |
| | | 0/ | |
| ensile strain at yield (50mm/min) | 20 | /0 | ISO 527-2/1A |
| harpy impact strength @ 23C | 20 | KJ/m² | ISO 179/1eU |
| harpy notched impact strength @ 23°C | 2,6 | KJ/m² | ISO 179/1eA |
| hermal Properties | | | |
| lass transition temperature (20°C/min) | 78 | °C | ISO 11357-1,-2 |
| TUL @ 0.45 MPa | 75 | °C | ISO 75-1, -2 |
| icat softening temperature B50 (50°C/h 50N) | 80 | °C | ISO 306 |
| lammability @1.6mm nom. thickn. | HB | Class | UL94 |
| lectrical Properties | | | |
| elative permittivity at 1-10 kHz | 2,35 | - | IEC 60250 |
| olume resistivity | >1E14 | ohm×m | IEC 60093 |
| omparative tracking index CTI | >600 | - | IEC 60112 |
| Optical Properties | | | |
| eg. of light transmission (t=2mm) | 91 | % | ISO 13468-1 |
| aze (t=2mm) | <1,2 | % | ISO 14782 |
| efractive index (589nm, 25°C) | 1,53 | - | ISO 489 |

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. Colorants or other additives may cause significant variations in data values. Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. 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. 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 should satisfy themselves that they can meet all applicable safety and health standards. - We strongly recommend that users asee and adhere to the manufacturer's current instructions for handling each material they use, and to entrus the handling of such material betrade personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Safety Data Sheets before attempting to process our products - The products for and ding additional technical information. Call Customer Services

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