



Biaxially Oriented PA-film

Technical Data Sheet

BIAXIS BOPA 20 STD/BT (Both Side Treated)

General Properties

| | Unit | Value | Standard / Test method |
|------------------------|-------------------------------------|---------------|---------------------------------|
| Thickness | µm | 20 +/-10% | DIN 53370 |
| Melting Point | °C | 220 +/- 2 | ISO 3146-C / DSC |
| Density | g/cm ³ | 1,15 +/- 0,01 | ISO 1183 |
| Haze | % | ≤ 10 | ASTM D 1003 |
| Shrinkage | % (MD / TD), 160°C, 5 min | ≤ 2,5 / ≤ 2,5 | DIN EN ISO 11501 |
| Friction (non-treated) | Stat. / dyn.; Film / Alu | - | DIN EN ISO 8295, ASTM D 1894 |
| Treatment level | dynes/cm (treated / not treated) | > 45 / - | DIN ISO 8296, ASTM D 2578 |

Mechanical Properties

| | Unit | Value | Standard / Test method |
|---------------------|-----------------------------|------------------|-------------------------------|
| Tensile Strength | N/mm ² (MD / TD) | >220 / >220 | DIN EN ISO 527, ASTM D 882 |
| Elongation at Break | % (MD / TD) | 120 / 100 +/- 30 | DIN EN ISO 527, ASTM D 882 |
| Puncture Resistance | N | >11 | DIN EN 14477 |
| Flex-Crack | holes / dm ² | ≤ 2 | ASTM F 392-74 |

All mechanical values are according to 2 sigma level

Barrier Properties

| | Unit | Value | Standard / Test method |
|----------------------------------|---|-------|--|
| O ₂ Transmission Rate | cm ³ / m ² , 24h, bar | 50 *) | DIN 53380-3, ASTM D 3985 23°C, 0% RH |
| | | 30 *) | DIN 53380-3, ASTM D 3985 23°C, 50% RH |
| WV Transmission Rate | g/m ² , 24h | 40 *) | DIN 53122, ASTM E 96 23°C, 85% RH |

*) Typical value

All the rawmaterials used in Biaxis films fulfill the requirements for food packaging as specified by the latest EU- and FDA-regulations.

The recommendations and data given are based on our experience to date, but no liability can be assumed in connection with their usage.

Values are valid on print date 3.12.2021

BIAXIS BOPA STD
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Postal Address

Telephone

Telefax

VAT Reg.No.

Biaxis Oy Ltd.
Teknikonkatu 2
FIN-15520 LAHTI
FINLAND

+358 (0)20 510 312
E-mail:info@biaxis.com

+358 (0)20 510 3500

FI01161156
Trade Reg. No.
189.266