

Typical Properties of M-VERA® Film Grades

| | Unit | M-VERA® A5001 | M-VERA® B5021 | M-VERA® B5024 | M-VERA® B5027 | M-VERA® B5028 | M-VERA® B5029 | M-VERA® B5030 | M-VERA® BR5001 | M-VERA® BR5002 |
|---------------------------------------|-------------------------|--------------------------|--------------------------|---------------------------------|--------------------------|--------------------------|--------------------------|---------------------------------|--------------------------|--------------------------|
| Food contact approval – EU 10/2011 | - | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| Certificate | - | OK compost INDUSTRIAL | OK compost INDUSTRIAL | OK compost HOME ² | OK compost INDUSTRIAL | OK compost INDUSTRIAL | OK compost INDUSTRIAL | OK compost HOME ² | OK compost INDUSTRIAL | OK compost INDUSTRIAL |
| Biobased carbon content ⁴ | % | <20 | >40 | >40 | <20 | <20 | <20 | >40 | >40 | >40 |
| Density | g/cm ³ | 1.37 | 1.30 | 1.23 | 1.47 | 1.33 | 1.37 | 1.30 | 1.20 | 1.35 |
| Transparency | - | opaque | opaque | transparent | opaque | opaque | opaque | opaque | transparent | opaque |
| MVR (190/2.16) | cm ³ /10 min | 2–5 | 2–5 | 2–5 ³ | 2–5 | 2–5 | 2–5 | 2–5 | 2–5 | 2–5 |
| Tensile modulus ¹ | MPa | 380/170 | 310/170 | 160/100 | 410/230 | 325/150 | 380/175 | 210/140 | 255/65 | 295/115 |
| Tensile strength ¹ | MPa | 25/30 | 14/11 | 14/10 | 18/17 | 31/40 | 25/30 | 19/20 | 29/35 | 25/27 |
| Elongation at break ¹ | % | 410/470 | 200/300 | 200/330 | 240/380 | 450/460 | 410/480 | 360/490 | 520/570 | 370/540 |
| Tear strength (ISO 6383) | N/mm | 100/50 | 140/50 | 70/110 | 125/50 | 108/28 | 105/48 | 220/240 | 68/35 | 145/45 |

¹ according ISO 527-3; values were determined on 25 µm blown film samples (BUR 1:2.5) and given in [MD/TD]; (MD) = machine direction; (TD) = transversal direction

² certification in progress

³ (130/2.16)

⁴ ISO 16620; TC



BIO-FED
Branch of AKRO-PLASTIC GmbH

BioCampus Cologne · Nattermannallee 1
50829 Cologne
Germany
Phone: +49 221 888894-00
Fax: +49 221 888894-99
info@bio-fed.com · www.bio-fed.com

All M-VERA® products can be colored with AF-Eco® biomasterbatches from AF-COLOR, also certified according to EN 13432. Please note that the use of AF-Eco® might influence the mechanical and/or optical properties of the final part.

The information contained herein is based on our current knowledge and experience. A legally binding promise of certain characteristics or suitability for a concrete individual case cannot be derived from this information. The information supplied here is not intended to release processors and users from the responsibility of carrying out their own tests and inspections in each concrete individual case. BIO-FED® and M-VERA® are registered brands of AKRO-PLASTIC GmbH.

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