

## Typical Properties of M·VERA® Film Grades

	Unit	M·VERA® A5001 (B0090)	M·VERA® A5002 (B0141) <sup>a</sup>	M·VERA® B5037 (B0183)	M·VERA® B5039 (B0186)	M·VERA® B5029 (B0155)	M·VERA® B5033 (B0199) <sup>a</sup>	M·VERA® B5040 (B0187) <sup>a</sup>	M·VERA® BR5002 (B0123) <sup>a</sup>
Food contact approval EU 10/2011	-	√	√	√	√	√	√	√	√
Certificate	-	OK compost INDUSTRIAL	OK biodegrad- able SOIL <sup>b</sup>	OK compost INDUSTRIAL	OK compost INDUSTRIAL	OK compost INDUSTRIAL	OK compost HOME	OK compost INDUSTRIAL <sup>b</sup>	OK compost INDUSTRIAL
Biobased carbon content <sup>c</sup>	%	n.a.	n.a.	n.a.	n.a.	n.a.	>50	n.a.	>40
Density	g/cm <sup>3</sup>	1.40	1.26	1.51	1.45	1.41	1.30	1.30	1.35
Transparency	-	opaque	opaque	opaque	opaque	opaque	opaque	opaque	opaque
MVR (190/2.16)	cm <sup>3</sup> /10 min	2–5	2–5	1–5	1–5	2–5	1–5	1–5	2–5
Tensile modulus <sup>d</sup>	MPa	380/170	310/170	175/160	150/145	380/175	250/150	200/200	295/115
Tensile strength <sup>d</sup>	MPa	25/30	26/35	22/22	30/31	25/30	19/20	23/20	25/27
Elongation at break <sup>d</sup>	%	410/470	390/540	505/510	525/550	410/480	350/500	450/480	370/540
Tear strength (ISO 6383)	N/mm	100/50	150/70	150/170	105/145	105/48	200/250	120/230	145/45

<sup>a</sup> product in development, preliminary data

<sup>b</sup> certification in progress

<sup>c</sup> ISO 16620; TC

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

The aforementioned information is only valid for M·VERA® grades in their original packaging, sold by BIO-FED® and/or its authorized partners. If M·VERA® grades are mixed in any capacity with foreign material, beside masterbatches recommended by BIO-FED®, BIO-FED® declines any further responsibility. M·VERA® grades shall be stored in dry, closed rooms in closed packaging in original state and to be protected against direct sun light not longer than 3 months. For keeping product properties, the recommended maximum temperature of 30 °C and the maximum humidity of 50 % shall not be exceeded. Products made of M·VERA® grades have to be stored under same conditions. 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.



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