

Typical Properties of M-VERA® Injection Moulding Grades

	Unit	M-VERA® GP1005 (B0001) ^a	M-VERA® GP1012 (B0065) ^a	M-VERA® GP1014 (B0057) ^a	M-VERA® GP1015 (B0071)	M-VERA® GP1018 (B0085) ^a	M-VERA® GP1025 (B0147) ^a	M-VERA® GP1037 (B0193)	M-VERA® ECS1001 (B4218) ^a
Food contact approval EU 10/2011	-	√ ^k	√	√ ^k	√	√	√	√	√
Certificate	-	-	OK biodegrad- able SOIL; OK compost HOME	OK biodegrad- able SOIL; OK compost HOME ^b	OK compost INDUSTRIAL	OK compost INDUSTRIAL	OK compost INDUSTRIAL ^b	OK biodegrad- able SOIL ^b	n.a. ^l
Renewable content in the polymer	%	~50	~100	~100	~70	~100	~100	>50 ^m	~60
Density	g/cm ³	1.44	1.26	1.43	1.40	1.28	1.49	1.3	1.08
MVR (190/2.16)	cm ³ /10 min	12	1.8 ^e	6 ^e	10	12	11	2–5	n.a.
Tensile modulus ^f	MPa	950	2,000	3,500	4,900	4,500	8,950	280	2,400
Tensile strength ^f	MPa	25	16	25	43	40	68	8	70
Tensile stress ^f	MPa	30	16	25	43	45	-	8	-
Elongation at yield ^f	%	-	3	2	1.8	2	-	-	5
Elongation at break ^f	%	-	6	2.2	4	2	1.2	315	>50
Charpy notched impact strength ^g	kJ/m ²	3	4	2	33	3	2.4	no break	no break
HDT/B (ISO 75/B)	°C	-	104	113	50–115 ^h	55–105 ^h	-	-	150
Flammability (UL 94/0.8 mm)	Class	-	-	-	-	-	-	-	HB

^a product in development, preliminary data ^b certification in progress ^c (160/2.16) ^d according ISO 527-1/-2 ^e ISO 179-1/1eA ^f depending on mould temperature and annealing process afterwards ^g for durable applications
^k food contact limitations, for more informations please contact BIO-FED ^m biobased carbon content n.a. = not applicable

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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08/2020

