Water absorption and increase of thickness - maridur® products

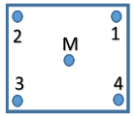
Inspection date: since 14.02.2017

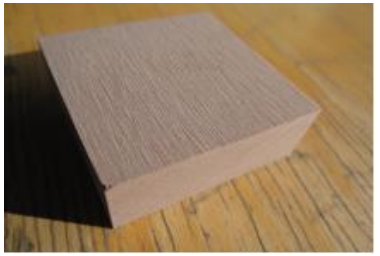
Material: maridur® 65

Test method: Water absorption DIN EN ISO 62, Verf. 1 (formerly DIN 53495, Method A);
Thickness swelling by internal method

Deviation from standard: completely desalinated water

Remarks: 180 min. Desiccator





	sample	Mass in delivery condition	length	width	Thickness of the center (in delivery condition)	Thickness of the edges (in delivery condition)				**density**	Mass after drying 24h / 50 ° C	Mass after water storage at 23 ° C (room temperature)	Thickness of the center after water storage at 23 ° C (room temperature)	Thickness of the edges after water storage at 23 ° C (room temperature)				**water absorption**	**Swelling of the center**	**Swelling of the edges**
		m_1	l	b	D_{0M}	D_{0R1}	D_{0R2}	D_{0R3}	D_{0R4}	φ	m_2	m_4	D_{1M}	D_{1R1}	D_{1R2}	D_{1R3}	D_{1R4}	W_A	Q_M	Q_R
		[g]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[g /cm³]	[g]	[g]	[mm]	[mm]	[mm]	[mm]	[mm]	[%]	[%]	[%]
24h	1	34,695	50,41	50,23	20,033	20,008	19,999	20,068	20,061	0,684	34,664	34,836	20,048	20,008	20,011	20,064	20,052	0,50	0,07	0,00
	2	34,553	50,41	50,25	20,027	20,027	20,001	20,047	20,065	0,681	34,520	34,696	20,023	20,027	20,001	20,045	20,061	0,51	-0,02	-0,01
	3	34,560	50,39	50,29	20,030	20,024	20,026	20,068	20,059	0,680	34,526	34,695	20,022	20,007	20,021	20,064	20,059	0,49	-0,04	-0,03
								Average x:		**0,682**								**0,50**	**0,00**	**-0,01**
								Standard deviation s:		0,002								0,008	0,050	0,013
7d	1											35,021	20,040	20,020	20,019	20,076	20,065	1,03	0,03	0,05
	2											34,863	20,018	20,038	20,019	20,053	20,071	0,99	-0,04	0,05
	3											34,871	20,023	20,015	20,033	20,084	20,088	1,00	-0,03	0,05
								Average x:										**1,01**	**-0,01**	**0,05**
								Standard deviation s:										0,016	0,036	0,002

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