

Technical specification



Quality **NATRON-STAR FSC braun (150) 90 g/m²**
S4351 **without glazing plain**

Substance	g/qm	87 - 93	DIN EN ISO 536:2012
Thickness	mm	0,12 - 0,16	DIN EN ISO 534:2011
Tensile strength md	N/15mm	> 75	DIN EN ISO 1924-2:2009
Tensile strength cd	N/15mm	> 28	DIN EN ISO 1924-2:2009
cd / md relation	%	40 - 50	
Moisture abs.	%	6,5 - 7,5	DIN EN ISO 287:2009
Breaking length md	mtr.	> 5.700	DIN EN ISO 1924-2:2009
Breaking length cd	mtr.	> 2.100	DIN EN ISO 1924-2:2009
Breaking length average	mtr.	> 4.000	DIN EN ISO 1924-2:2009
Burst strength abs.	kPa	> 185	DIN EN ISO 2758:2014
Burst strength rel.	kg/qcm	> 2,05	DIN EN ISO 2758:2014
Air resistance (Bendtsen)	ml/min	75 - 225	DIN 53120-1:2018
Tearing resistance md (Elmendorf)	mN	82 - 90	DIN EN ISO 1974:2012
Tearing resistance cd (Elmendorf)	mN	84 - 92	DIN EN ISO 1974:2012

Issued

author Dieter Schürmann/ Quality Manager

11.07.18

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Above mentioned values will be checked on regular basis by our process control. This specification doesn't release the buyer from a thorough entrance control.

Validity of this specification - maximum twelve months from date of printing.

Date of printing Friday, 12. June 2020

Technical specification



Quality **NATRON-STAR FSC braun (150) 105 g/m²**
S4352 **without glazing plain**

Substance	g/qm	101 - 109	DIN EN ISO 536:2012
Thickness	mm	0,135 - 0,17	DIN EN ISO 534:2011
Tensile strength md	N/15mm	> 86,4	DIN EN ISO 1924-2:2009
Tensile strength cd	N/15mm	> 32,4	DIN EN ISO 1924-2:2009
cd / md relation	%	40 - 45	
Moisture abs.	%	6,5 - 7,5	DIN EN ISO 287:2009
Breaking length md	mtr.	> 5.600	DIN EN ISO 1924-2:2009
Breaking length cd	mtr.	> 2.100	DIN EN ISO 1924-2:2009
Breaking length average	mtr.	> 3.850	DIN EN ISO 1924-2:2009
Burst strength abs.	kPa	> 190	DIN EN ISO 2758:2014
Burst strength rel.	kg/qcm	> 1,8	DIN EN ISO 2758:2014
Air resistance (Bendtsen)	ml/min	75 - 225	DIN 53120-1:2018
Tearing resistance md (Elmendorf)	mN	92 - 100	DIN EN ISO 1974:2012
Tearing resistance cd (Elmendorf)	mN	115 - 125	DIN EN ISO 1974:2012

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11.07.18

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Technical specification



Quality **NATRON-STAR FSC braun (150) 50 g/m²**
S4353 **without glazing plain**

Substance	g/qm	48 - 52	DIN EN ISO 536:2012
Thickness	mm	0,065 - 0,095	DIN EN ISO 534:2011
Tensile strength md	N/15mm	> 43	DIN EN ISO 1924-2:2009
Tensile strength cd	N/15mm	> 15	DIN EN ISO 1924-2:2009
cd / md relation	%	40 - 45	
Moisture abs.	%	6,5 - 7,5	DIN EN ISO 287:2009
Breaking length md	mtr.	> 5.800	DIN EN ISO 1924-2:2009
Breaking length cd	mtr.	> 2.000	DIN EN ISO 1924-2:2009
Breaking length average	mtr.	> 3.700	DIN EN ISO 1924-2:2009
Burst strength abs.	kPa	> 125	DIN EN ISO 2758:2014
Burst strength rel.	kg/qcm	> 2,5	DIN EN ISO 2758:2014
Air resistance (Bendtsen)	ml/min	100 - 300	DIN 53120-1:2018
Tearing resistance md (Elmendorf)	mN	30 - 40	DIN EN ISO 1974:2012
Tearing resistance cd (Elmendorf)	mN	35 - 45	DIN EN ISO 1974:2012

Issued

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11.07.18

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Date of printing Friday, 12. June 2020

Technical specification



Quality **NATRON-STAR FSC braun (150) 60 g/m²**
S4354 **without glazing plain**

Substance	g/qm	58 - 62	DIN EN ISO 536:2012
Thickness	mm	0,06 - 0,1	DIN EN ISO 534:2011
Tensile strength md	N/15mm	> 52	DIN EN ISO 1924-2:2009
Tensile strength cd	N/15mm	> 18	DIN EN ISO 1924-2:2009
cd / md relation	%	40 - 45	
Moisture abs.	%	6,5 - 7,5	DIN EN ISO 287:2009
Breaking length md	mtr.	> 5.900	DIN EN ISO 1924-2:2009
Breaking length cd	mtr.	> 2.100	DIN EN ISO 1924-2:2009
Breaking length average	mtr.	> 4.000	DIN EN ISO 1924-2:2009
Burst strength abs.	kPa	> 140	DIN EN ISO 2758:2014
Burst strength rel.	kg/qcm	> 2,3	DIN EN ISO 2758:2014
Air resistance (Bendtsen)	ml/min	100 - 300	DIN 53120-1:2018
Tearing resistance md (Elmendorf)	mN	44 - 55	DIN EN ISO 1974:2012
Tearing resistance cd (Elmendorf)	mN	48 - 56	DIN EN ISO 1974:2012

Issued

author Dieter Schürmann/ Quality Manager

11.07.18

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Technical specification



Quality **NATRON-STAR FSC braun (150) 70 g/m²**
S4355 **without glazing plain**

Substance	g/qm	68 - 72	DIN EN ISO 536:2012
Thickness	mm	0,085 - 0,125	DIN EN ISO 534:2011
Tensile strength md	N/15mm	> 60	DIN EN ISO 1924-2:2009
Tensile strength cd	N/15mm	> 21,6	DIN EN ISO 1924-2:2009
cd / md relation	%	40 - 45	
Moisture abs.	%	6,5 - 7,5	DIN EN ISO 287:2009
Breaking length md	mtr.	> 5.800	DIN EN ISO 1924-2:2009
Breaking length cd	mtr.	> 2.100	DIN EN ISO 1924-2:2009
Breaking length average	mtr.	> 3.950	DIN EN ISO 1924-2:2009
Burst strength abs.	kPa	> 160	DIN EN ISO 2758:2014
Burst strength rel.	kg/qcm	> 2,2	DIN EN ISO 2758:2014
Air resistance (Bendtsen)	ml/min	100 - 300	DIN 53120-1:2018
Tearing resistance md (Elmendorf)	mN	> 50	DIN EN ISO 1974:2012
Tearing resistance cd (Elmendorf)	mN	> 58	DIN EN ISO 1974:2012

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