



POWERCOAT®



# TECHNICAL DATA SHEET

## POWERCOAT XD PAPER

CHARACTERISTICS	APPARATUS	STANDARDS		125g	200g	
<b>Basis Weight</b> g/m <sup>2</sup>	Sartorius L2200 Balance	NF EN ISO 536- RNE PC.110- RNE PC.111		129	202	
<b>Thickness</b> µm	MI20	NF EN ISO 20534- PC.90 ISO 534- PC.91/PC.101		128	204	
<b>Bulk</b> cm <sup>3</sup> /g				0.99	1.01	
<b>Smoothness</b> Ra [nm]	Bekk (s)			136	80	
	Profilometer Ra (nm)			1500	2000	
<b>Porosity</b> ml/min	Bendtsen L&W	NF Q 03-076-COFRAC PC.390 ISO 5636/3-COFRAC PC.391		2	35	
<b>Tear</b> mN	Tear tester 60-220	NF EN 21974- RNE PC.60		MD	576	871
<b>Tear Index</b> mN.m <sup>2</sup> /g				CD	604	932
<b>Tensile</b>	Tensile tester MTC-100	NF EN ISO 1924- COFRAC PC.20- COFRAC PC.21	<b>Force</b> N	MD	4	4
				CD	5	5
			<b>Elongation</b> mm	MD	134	88
				CD	70	48
<b>Stiffness</b> Nmm	Stiffness tester Frank	ISO 2493	MD	3.230	2.935	
			CD	7.577	5.897	
<b>Burst</b> kPa	Bursting tester EC05	NF Q 03-053- RNE PC0.40 ISO 2758-RNE PC0.41		MD	1.498	4.044
<b>Burst Index</b> kPa.m <sup>2</sup> /g				CD	0.964	2.371
<b>Brightness</b>	Color Touch CTHA 2045	NF Q 03-039- RNE PC.200 ISO 2470- RNE PC.201		82.6	82.4	
<b>Yellowing after curing</b> (ΔE)	Color Touch CTHA 2045	Internal method	5 minutes at 180°C	2.8	2.6	
<b>Moisture Content</b> %	Oven Gallenkamp Kern Balance	NF EN 20 287-PC.40 ISO 287-PC.41		Wet weight	8.11	12.64
				Dry weight	7.72	12.12
				Moisture content	4.81	4.11
<b>Shrinkage</b> %	Unrestrained at 200°C / 5 min			MD	-0.36	-0.35
				CD	-0.71	-0.70
	Reconditioned at 23°C / 50%RH			MD	-0.10	-0.07
				CD	-0.19	-0.14