



POWERCOAT™



TECHNICAL DATA SHEET

POWERCOAT XD PAPER

CHARACTERISTICS	APPARATUS	STANDARDS		125g	200g	
Basis Weight g/m ²	Sartorius L2200 Balance	NF EN ISO 536- RNE PC.110- RNE PC.111		129	202	
Thickness µm	MI20	NF EN ISO 20534- PC.90 ISO 534- PC.91/PC.101		128	204	
Bulk cm ³ /g				0.99	1.01	
Smoothness Ra [nm]	Bekk (s)			136	80	
	Profilometer Ra (nm)			1500	2000	
Porosity ml/min	Bendtsen L&W	NF Q 03-076-COFRAC PC.390 ISO 5636/3-COFRAC PC.391		2	35	
Tear mN	Tear tester 60-220	NF EN 21974- RNE PC.60		MD	576	871
Tear Index mN.m ² /g				CD	604	932
				MD	4	4
CD				5	5	
Tensile	Tensile tester MTC-100	NF EN ISO 1924- COFRAC PC.20- COFRAC PC.21	Force N	MD	134	88
				CD	70	48
		Elongation mm	MD	3.230	2.935	
			CD	7.577	5.897	
Stiffness Nmm	Stiffness tester Frank	ISO 2493		MD	1.498	4.044
				CD	0.964	2.371
Burst kPa	Bursting tester EC05	NF Q 03-053- RNE PC0.40 ISO 2758-RNE PC0.41		386	489	
Burst Index kPa.m ² /g				3	2	
Brightness	Color Touch CTHA 2045	NF Q 03-039- RNE PC.200 ISO 2470- RNE PC.201		82.6	82.4	
Yellowing after curing (ΔE)	Color Touch CTHA 2045	Internal method	5 minutes at 180°C	2.8	2.6	
Moisture Content %	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
Shrinkage %	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