

TECHNICAL DATA SHEET



POWERCOAT™



POWERCOAT PAPER						
CHARACTERISTICS	APPARATUS	STANDARDS		VALUE OF 230 µm	VALUE OF 95 µm	
Basis Weight g/m ²	Sartorius L2200 Balance	NF EN ISO 536- RNE PC.110- RNE PC.111		219	97.4	
Thickness µm	MI20	NF EN ISO 20534- PC.90 ISO 534- PC.91/PC.101		222	89	
Bulk cm ³ /g				1.02	0.92	
Smoothness Ra [nm]	AFM			< 20	< 20	
Porosity ml/min	Bendtsen L&W	NF Q 03-076-COFRAC PC.390 ISO 5636/3-COFRAC PC.391		Not Measurable	Not Measurable	
Tear mN	Tear tester 60-220	NF EN 21974- RNE PC.60		MD	1049	396
Tear Index mN.m ² /g				CD	1311	486
Tensile	Tensile tester MTC-100	NF EN ISO 1924- COFRAC PC.20- COFRAC PC.21	Force N	MD	5	4
				CD	6	5
			Elongation mm	MD	198	88
				CD	109	48
Modulus Gpa	DMA	50°C		MD	4.30	2.26
		125°C		MD	3.78	1.80
		200°C		MD	3.15	1.41
Stiffness Nmm	Stiffness tester Frank	ISO 2493		MD	2.859	0.533
				CD	5.669	0.662
Burst kPa	Bursting tester EC05	NF Q 03-053- RNE PC0.40 ISO 2758-RNE PC0.41		578	217	
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		80.6	78.1	
Yellowing after curing (ΔE)	Color Touch CTHA 2045	Internal method		5 minutes at 180°C	1.2	1.3
				5 minutes at 200°C	3	4.2
Moisture Content %	Oven Gallenkamp Kern Balance	NF EN 20 287-PC.40 ISO 287-PC.41		Wet weight	2.13	0.97
				Dry weight	2.04	0.92
				Moisture content	4.07	5.50
Shrinkage %	Unrestrained at 200°C / 5 min			MD	-0.44	-0.46
				CD	-0.83	-0.89
	Reconditioned at 23°C / 50%RH			MD	-0.08	-0.14
				CD	-0.13	-0.17
Dielectric Permittivity		Internal method		at 900 MHz	3.3	3.3
Dielectric Loss (tan δ)				at 2,45 GHz	0.12	0.12