

DuPont™ Active Layer

PRELIMINARY DATA

APA60020 NC000

APA60020 NC000 is a soft, very breathable, waterproof, windproof and stretchable monolithic polyester film, intended for lamination to a support fabric. Laminated fabric constructions with APA60020 NC000 have high comfort, durability and waterproofness.

Property	Test Method	Units	Value
Physical			
Film Thickness	ISO 536	micron	20
Film Unit Weight	ISO 536	g/m ²	24
Mechanical			
Tensile Strength at Break	ASTM D 882	MPa (kpsi)	15 (2.2)
Machine direction, Film			
Transverse direction, Film			15 (2.2)
Elongation at Break	ASTM D 882	%	500
Machine direction, Film			
Transverse direction, Film			640
Hydrostatic Resistance	ASTM D 751-95	m	>10
Mullen Burst			
Elastic Modulus	ISO 527-1/-3	MPa (kpsi)	49 (7.1)
Propagation Tear Resistance	ASTM D 1922	mN (lbf)	65 (0.015)
Machine direction, Film			
Transverse direction, Film			110 (0.025)
Initial Tear Resistance	ASTM D 1004	N/mm (lb/in)	65 (370)
Machine direction, Film			
Transverse direction, Film			

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc
 ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
 Test temperatures are 23°C unless otherwise stated.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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Product Information

APA60020 NC000

Property	Test Method	Units	Value
Permeability			
Water Vapor Transmission Rate 24°C, 55%RH	ASTM E 96B	g/m ² /day	850
Water Vapor Transmission Rate 24°C, 55%RH	ASTM E 96BW	g/m ² /day	13,000
Water Vapor Transmission Rate	ISO 15496	g/m ² /day	13,500
Water Vapor Transmission Rate up-cup	JIS L1099 A-1	g/m ² /day	5040
Thermal			
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	200 (392)
Vicat Softening Temperature 10N, 50°C/h	ISO 306	°C (°F)	151 (303)
Optical			
Haze	ASTM D 1003-97	%	90
Other			
Hardness, Shore D	ISO 868		45
Processing			
Dimensional Stability 180°C, 15min		%	0.0

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