



Product Selector Guide

DURA-GLASS® NONWOVENS

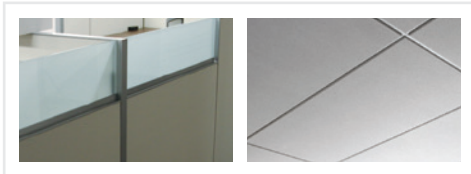
Building Interior

Building Construction

Energy Storage

Nonwoven Solutions

Johns Manville Engineered Products Americas is a leading manufacturer of nonwoven fabrics. Dura-Glass® nonwovens are manufactured with wet chopped glass strands or a combination of fibers (e.g., chopped strand + microfiber or chopped strand + polyester fiber) using a wet-laid process. Our vertical integration in glass fiber manufacturing coupled with our expertise in fiber sizing chemistry allows continuous improvement in glass mat design. JM utilizes a wide range of binder systems (e.g., thermoset, thermoplastic, formaldehyde-containing, formaldehyde-free) to support product properties such as tensile strength, flexibility, stiffness, chemical resistance, and volatile organic compounds (VOC) requirements. Our diverse nonwovens portfolio can be matched to a range of performance criteria, including acoustical, dimensional stability, moisture resistance, permeability, reinforcement, surface aesthetics, surface protection, thermal and more.



Building Interior

Johns Manville Dura-Glass® nonwoven materials are used extensively in building interior applications as a backing component in carpet tile and vinyl flooring; as a facer component on ceiling tiles, interior gypsum panels, acoustical office panels, shaft liner, tile backer and duct insulation systems (e.g., duct board, duct liner).

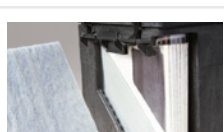
Average Physical Properties					Performance Criteria								
Type	Weight		Thickness		Application	ACOUSTICAL	DIMENSIONAL STABILITY	MOISTURE RESISTANCE	PERMEABILITY	REINFORCEMENT	SURFACE ENHANCEMENT	FIRE PROTECTION	
	(lbs/100 sq ft)	(gsm)	(mils)	(mm)									
8227	2.4	115	42	1.07	Aesthetic Interior Facer (Ceiling Tile)	●			●		●		
8229	2.4	115	42	1.07									
8235	2.5	120	47	1.20									
8236	2.5	120	46	1.17									
8214	1.4	68	26	0.65	Carpet Tile Backer		●	●	●	●			
8507	0.7	37	15	0.37									
8510	1.0	49	17	0.43									
8514	1.4	67	23	0.58									
8570	1.4	67	22	0.56									
3011	1.1	54	17	0.43	Duct Insulation Facer	●		●		●	●		
7503	1.5	71	25	0.64									
7513	0.9	44	15	0.38									
7603	1.5	71	25	0.64									
7694	2.1	103	35	0.89									
8441	0.8	39	14	0.34									
3112B	1.2	59	17	0.43									
3417B	1.7	83	23	0.58									
8221	2.5	120	41	1.05									
8248	5.1	249	85	2.16									
—	Customer Specific Materials				Vinyl Flooring		●	●	●	●			



Building Construction

Johns Manville Dura-Glass® nonwoven materials are used extensively in the construction industry as a reinforcement component in Commercial & Residential Roofing systems and as a facer component in Roof Deck and Exterior Sheathing panels.

Average Physical Properties					Performance Criteria							
Type	Weight		Thickness		Application	MOISTURE RESISTANCE	REINFORCEMENT	SURFACE ENHANCEMENT	TENSILE	TEAR	DIMENSIONAL STABILITY	SURFACE PROTECTION
	(lbs/100 sq ft)	(gsm)	(mils)	(mm)								
7512	1.2	59	21	0.53	Roof Deck	•		•			•	•
7594	2.1	103	35	0.89								
7611	1.9	90	29	0.74								
8924	2.5	122	31	0.79	Exterior Sheathing	•		•				•
7521	1.9	90	31	0.79	Residential Roofing Shingle	•	•			•	•	
7524	1.8	90	30	0.76								
7536	2.5	122	36	0.90								
7539	2.2	107	38	0.95								
7215	1.5	73	23	0.58								
7218	1.8	86	27	0.69	Commercial Roofing	•	•		•		•	
7221	1.9	90	30	0.76								
7503	1.5	71	25	0.64								
7522	2.0	98	30	0.76								



Energy Storage

Johns Manville Dura-Glass® nonwoven materials are used extensively in the energy storage market as retainer mat in battery plate separator applications, as a pasting carrier and for plate reinforcement in lead acid battery applications.

Average Physical Properties					Performance Criteria						
Type	Weight		Thickness		Application	LOW ELECTRICAL RESISTANCE	LEAD OXIDE PASTE ADHESION	HIGH CHEMICAL PURITY	EXCELLENT OXIDATION RESISTANCE	EXCELLENT COMPRESSION RESISTANCE	SUPERIOR FIBER RETENTION
	(lbs/100 sq ft)	(gsm)	(mils)	(mm)							
PR-9	0.4	20	7	0.18	Pasting Carrier and Plate Reinforcement in Lead Acid Battery	•	•	•	•		•
B-10	0.8	37	13	0.33	Retainer Mat in Lead Acid Battery Separator	•		•	•	•	•
B-15	1.2	56	18	0.46		•		•	•	•	•
B-20	1.2	59	22	0.56		•		•	•	•	•
B-30	2.2	107	36	0.91		•		•	•	•	•
B-40	3.1	151	48	1.22		•		•	•	•	•

Engineered Products Americas

Product quality, customer service and technical assistance are key elements of the Engineered Products division. Johns Manville's team of scientists and engineers work closely with customers to provide a broad understanding of material behavior. We have the capability to test full-scale, complex product solutions under various conditions. As long-standing members of the technical community, our experienced staff works with industry professionals to deliver the most cost-effective and reliable solutions.

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