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ALCAN COMPOSITES

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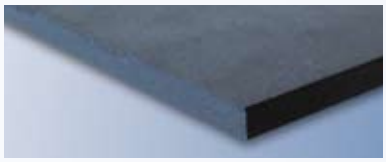
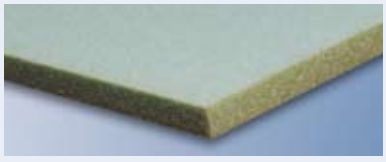
		Marine	Wind Energy	Rail	Road	Aerospace	Industrial
AIREX® R63 **Damage Tolerant Foam** (60–140 kg/m³)		●●●		●	●		●●
AIREX® R82 **High Performance Foam** (60–110 kg/m³)		●		●●	●	●●●	●●●
AIREX® T90 **Easy Processing Structural FST Foam** (110–320 kg/m³)		●●		●●●	●●	●	●●
AIREX® T92 **Easy Processing Structural Foam** (105–135 kg/m³)		●●●	●●●	●	●●●		●●
AIREX® PXc **Fiber-Reinforced Structural Foam** (150–420 kg/m³)		●●●			●●		●●
AIREX® PXw **Fiber-Reinforced Structural Foam Panel** (320–420 kg/m³)		●●●	●●		●●		●●
AIREX® C52 **Industrial Processing Foam** (60 kg/m³)		●	●●	●	●		●●
AIREX® C70 **Universally Structural Foam** (40–250 kg/m³)		●●●	●●●	●●	●●	●	●
AIREX® C71 **Elevated Temp. Structural Foam** (60–80 kg/m³)		●●	●●●	●●●	●	●●	●●
BALTEK® SB **Structural End-Grain Balsa** (94–247 kg/m³)		●●●	●●●	●●●	●●●	●	●●

●●● = best choice ●● = most suitable ● = suitable

CHARACTERISTICS	APPLICATIONS	PROCESSING	Contact moulding (hand/ spray)	Vacuum infusion	Adhesive bonding	Pre-preg	Resin injection (RTM, VARTM)	Compression molding (SMC, GMT)	Thermoforming
– outstanding damage tolerance – no crack propagation – exceptional thermoformability – high fatigue resistance – excellent skin adhesion	Sandwich structures subjected to high impact and shock loads		✓	✓	✓				✓
– fulfills the most stringent fire and smoke regulations (FAR, NF, DIN) – excellent temperature performance (high and low); remains ductile at -194° C – high strength to weight ratio – outstanding dielectric properties – good fatigue properties	Sandwich structures with very high require-ments regarding FST or service and processing temperatures. Applications requiring radar transparency		✓	(✓)	✓	✓			✓
– fulfills stringent fire and smoke requirements – excellent fatigue and creep properties – easy processing with all resins and processing technologies – suitable for high service and processing temperatures – high mechanical properties, especially in compression strength and stiffness	Sandwich structures subjected to high static or dynamic loads, high service and processing temperatures, high FST requirements		✓	✓	✓	✓	✓	✓	✓
– Good compression and shear properties – excellent fatigue and creep properties – easy processing with all resins and processing technologies – suitable for high temperatures – good impact strength	Sandwich structures subjected to high static or dynamic loads, high service and processing temperatures		✓	✓	✓	✓	✓	✓	✓
– high mechanical properties, especially in shear strength and stiffness – compatible with all resins and processes – chemically and thermally stable – low water absorption	Sandwich structures subjected to very high loads, high process or service temperature		✓	✓	✓	✓	✓	(✓)	
– outstanding flexural (bending) strength and stiffness – compatible with all resins and processes – chemically and thermally stable – low water absorption	Ideally suited as a stand-alone panel replacing wood or plywood applications		✓	✓	✓	✓	✓	(✓)	
– high impact strength – easily formable (cold and hot) – good fatigue properties – reduced resin consumption thanks to functional surface fleece – good thermal insulation	Sandwich structures and panels subjected to dynamic loads, suitable for automated closed mold processes such as RTM, GMT Ideal for industrial, high-volume sandwich part production		✓	✓	✓	✓	✓	✓	✓
– high stiffness and strength to weight ratio – good impact strength – good temperature performance (not affected by post-curing of skins at 80° C)	Any sandwich structure or panel subjected primarily to static and dynamic loads		✓	✓	✓	✓	✓		✓
– high stiffness and strength to weight ratio – good impact strength – high temperature performance (not affected by post-curing of skins at 140° C)	Any sandwich structure or panel subjected to static and dynamic loads which are exposed to high tempera-tures during manufacturing or in service		✓	✓	✓	✓	✓		✓
– outstanding strength and stiffness to weight ratio – excellent fire characteristics – very good chemical and thermal resistance (-212° C to +163° C) – ecological product	Sandwich structures subjected to high static and dynamic loads, high temperatures or fire requirements		✓	✓	✓	✓	✓	✓	