




DATA PERFORMANCE SHEET EURO APET

		Notation of test or measure
MATERIAL	<ul style="list-style-type: none"> • APET – Polyethylene Terephthalate 	Extruded in accordance with ISO 7823-2 Standard and EN ISO 9001:2008
GRADE	<ul style="list-style-type: none"> • First grade-100% virgin PET 	
PROTECTIVE FILM	<ul style="list-style-type: none"> • Front face protection only Clear or Opal coloured film available • 50 Micron Co Ex Grade controlled bond 	
DENSITY / WEIGHT	<ul style="list-style-type: none"> • 1.33 	DIN EN ISO 1183-1
THICKNESS	<ul style="list-style-type: none"> • 2.8mm and 3mm • Performance Tested minimum thickness 3mm 	Extruded to plus or minus 2% Bsau145d
RIGIDITY	<ul style="list-style-type: none"> • Bend Test rig suspended weight 	Bsau145d
SURFACE FINISH	<ul style="list-style-type: none"> • Extruded Clear and free of blemishes • Ball Pressure Hardness MPA 117 	ISO2039
OPTICAL PROPERTIES	<ul style="list-style-type: none"> • Total Light Transmission >86% • Haze <2.0% • Water Absorption 0.15% 	ASTM D -1003 ASTM D -1003 ISO 62
OPTICAL INCLUSIONS	<ul style="list-style-type: none"> • Control over a given area of maximum faults with a minimum distance between of 1 metre • *Black Specs of 0.5mm size • *Air Bubbles of 0.3mm size • Fish eyes of 1mm size up to an area of 0.5m² 	ISO 7823-2
IMPACT RESISTANCE	<ul style="list-style-type: none"> • Izod Notched 3.9 kJ/m² • Izod Unnotched no burst • Falling weight test minimum impact energy 49J 	ISO 180/1A ISO 180/1A Bsau145d
THERMAL PROPERTIES	<ul style="list-style-type: none"> • Recommended Maximum Temperature /short time 60°C • Heat deflection temperature (1.8MPa) 68° C • Coefficient of linear thermal expansion parallel 0.06 mm/m °C • Vicat Softening Temperature(50N) 75°C 	ISO 75-1 ISO11359 ISO 306



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MECHANICAL PROPERTIES	<ul style="list-style-type: none"> • Tensile Strength at yield 59MPa • Elongation at Break –No Break • Tensile Modulus of Elasticity 2420 • Resistance to Flexion Mpa 86 	ISO 527 ISO527 ISO527 ISO178
FIRE RATING	<ul style="list-style-type: none"> • UK Class 1Y • France M2 • Germany B1 • Europe D-s3-d0 	BS476 Part 7 NF F16-101& 102 Din 4102-1 EN 13 501-1
WEATHERABILTY	<ul style="list-style-type: none"> • Excellent colour stability, good mechanical properties, UV resistant, very good weathering and age resistance • Ten years limited warranty 	
RECYCLING SHEETS	<ul style="list-style-type: none"> • APET sheets and their protective layers are 100% fully recyclable 	
QUALITIES	<ul style="list-style-type: none"> • Tough and hard with high impact strength also at sub-zero temperature down to -20°C • Insoluble in water, resistant to salty water. • Excellent optical properties with a light transmission of nearly 90% for non-tinted types and a brilliant surface • Good outdoor durability up to 4 years even for standard types • Flame retardant rated “ difficult to ignite “ • Very high chemical resistant to, mineral oils and petroleum also resist the chemical attack of acid rain, diesel engine exhaust fumes • Easy and fast to convert • Good printability thanks to optimal adhesion and UV curing inks • Approved by FDA/BGA for direct contact with foodstuff and medical applications • Meets the requirements of the current European chemicals 	



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	<p>regulation REACH and the sheets do not contain any substances which are listed in the current version of the ECHA candidate list “ Substances of very high concern “ (SVHC)</p> <ul style="list-style-type: none"> • Meets the requirements of the RoHS and WEEE directives of the European Union on the restriction of hazardous substances 	
HANDLING RECOMMENDATIONS AND TIPS		
<p>EXPANSION GUIDE</p> <p>DRILLING</p> <p>DRILL BITS</p> <p>CLEANING</p> <p>BONDING</p>	<ul style="list-style-type: none"> • Sheet expands 0.06mm for each degree by each metre • You must drill a hole with a diameter three times the screw diameter, leave a clearance of 1.5 times the hole diameter from the sheet border to the hole perimeter. Use PMMA compatible rubber washers between plastic sheets and metal / screw head • Use only drills that are modified for use with plastics at the correct tip angle and RPM. Do not over tighten back off half a turn from the tight position to avoid expansion cracks • Use only water with mild washing up liquid. No alcohol solvents or commercial cleaning fluids should be used • Adhesive will penetrate on stressed material causing crazing. Use only approved cements or adhesives 	