

TECHNICAL SPECIFICATION SHEET

ArmouredSlate GRP Plate

Sheet Specification	
Sheet Type	Opaque coloured Glass Reinforced Polyester (GRP)
Colour	Blue/Grey 978
Finish	UV absorbing Filon Protect Anti-Glare, matt protective film to the external face
Structural and Mechanical - Typical Values	
Nominal Thickness	1.0mm
Tensile Strength	97N/mm ²
Tensile Modulus	5.17kN/mm ²
Flexural Strength	230N/mm ²
Flexural Modulus	3.83kN/mm ²
Average Glass Content:	35%
Barcol Hardness:	50
Physical Properties - Typical Values	
Thermal Conductivity (K):	0.15W/m°C
Thermal Transmittance (U):	5.7W/m ² K
Thermal Movement, Coefficient of Linear Expansion:	25 x 10 ⁻⁶ per °C
Constant Operating Temperatures:	-20°C to +80°C
Liquids:	Water absorption 0.25% after 24 hours at 20°C
Biological:	Resistant to micro-organisms, fungi, larvae, insects
Compatibility:	No chemical reaction with other construction materials
Fire Performance	
Filon Fire Grade 300:	BROOF (t4) to EN 13501 Part 5. SAB to BS 476 Part 3. Class 3 to BS 476 Part 7
Dimensions	
Length & Width	1500mm x 320mm (Cover length 1450mm with 50mm lap)
Accreditation	
EN ISO 9001:	Quality management systems – Requirements
EN ISO 14001:	Environmental management systems - Requirements with guidance for use

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Registered in the UK: 12700460 | VAT Reg Number: 364832

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Vertical Lap Tape (Toffee Tape)

Rubber Resin Adhesive Bonding Tape

Composition	Solventless, pressure sensitive rubber resin hot melt adhesive, with paper backing. Pre-applied to Armoured Slate Plate
Colour	Honey
Size (Thickness x Width)	1mm x 20mm
Elongation	Excellent even to polyethylene and rubber, not to be used with plasticised PVC
180° Peel Adhesion (23c)	UNITSN/cm 35
Softening Point (Ring & Ball)	°C 102
Adhesion Durability	15 years plus
UV Resistance	Non resistant must be protected
Temperature	Min -10 to +60°C
Chemical Resistance Toxicity	Chemicals, petrol and oil will affect this product, but the degree depends on the application
Water Absorption	Nil

Black EPDM Foam Tape

Width x Thickness	20mm x 1mm	
Colour	Black	
Cellular structure	Closed	
Specification according to	ASTM D 1056-85	2 A2 B2 CP
	AFNOR NF R99-211-80	2 C 08 B3 C2
	SAE J 19-92	RE 42 B2 C P
Density		130/170 kg/m ³
Shore hardness 00		40-60 sh 00
	ASTM D 1056-25% compression	45 Kpa 35-63KPa
Compression deflexion according to	NF R 99211-80-50% compression	125 Kpa 80-160Kpa
	ASTM D 1056 After 7 Hours @ 70°C	+20% from +30% to -30%
Change in compression deflection	ASTM D 1056 after 22h at 100°C	N/A

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Water absorption	ASTM D 1056	1.5%	=<5%
	ASTM D 1056 AT 23°C-70°F	19%	<25%
Compression set 50%/22h After 24h Release	NFR 99211 AT 40°C/105°F	65%	<80%
Linear shrinkage after 22 hours at 70°C		3.5%	=<5%
Ultimate elongation	DIN 53571	140%	>100%
Tensile strength	DIN 53571	650Kpa	>400Kpa
Tear Resistance	NFR 99211-80	0.6KN/m	>0.5K/m
Ozone resistance	200 pphm/30°C/48h	No cracking	
Resistance to fuel B	ASTM change in weight after 7 days at 23°C	N/A	
Fire resistance	According to FMVSS302	Conforms to category 1 type of combustion E	
	According to UL 94	N/A	
Corrosive effect on	Copper & silver	Corrosive	
	Paint staining	Non staining	
Temperature range	Continuous	From -40°C to +70°C	
	Intermittent	Up to 80°C	
General indications		Good tensile and compressive strength with high ageing resistance	

Acrylic Adhesive for Foam Tape

General: A solvent – free acrylic adhesive. VS adhesive has an excellent direct tack and continuous adhesive strength. Good dynamic and static shear strength. On most surfaces no plasticizer migration. Good temperature, UV and ageing resistance. Long term up to 120 degrees C, short term 200 degrees C.

Carrier	Non – Woven (Tissue)
Total Thickness Without Backing	100 Microns
Adhesion to Steel: (Afera 4001)	13 N / 25mm
Dynamic Shear	TBA / sq.mm
Adhesive coat weight	90 grammes per sq. meter
Temperature Resistance	-40°C to + 120°C

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