

PRODUCT SPECIFICATION SHEET



RTEC 5 VOC GRSAM

VOC & Hydrocarbons Ground Gas Membrane

TECHNICAL DATA

Physical	Thickness	EN 1849-2	0.5 mm	
	Width	EN 1849-2	2 m	
	Length	EN 1849-2	50 m	
	Weight	EN 1849-2	500 g/m2	
Hydraulic Press	Water Vapour Transmission Rate	EN 1931	0.11 - 0.18 g/m2/day	
	Water Tightness (60 kPa)	EN 1928	Pass	
	Water Tightness (196 kPa - 20 m Water)	EN 1928	Pass	
Mechanical Properties	Puncture Resistance (Static Load)	EN 12730-B	≥ 20 kg	
	Puncture Resistance	EN 12236	≥ 2.0 kN	
	Tensile Strength (MD)	EN 12311-1	> 550 N/50mm	
	Tensile Strength (CMD)	EN 12311-1	> 400 N/50mm	
	Tensile Elongation (MD/CMD)	EN 12310-1	> 550 %	
	Tear Resistance (MD/CMD)	EN 12310-1	> 300 N	
	Resistance to Impact	EN 12691-B	650 mm	
	Reaction to Fire	EN 13501-1	E Class	
	Resistance to Artificial Ageing	EN 1296/EN 1928	Pass	
	Resistance to Chemicals	EN 1296/EN 1928	Pass	
Vapour Permeability 100% Concentration	Transmission Rate of Benzene	EN ISO 15105-2	< 3.6 mg/m2/day	
	Transmission Rate of Toluene	EN ISO 15105-2	< 13.8 mg/m2/day	
	Transmission Rate of Ethyl Benzene	EN ISO 15105-2	< 2.7 mg/m2/day	
	Transmission Rate of Xylenes (M,P,O)	EN ISO 15105-2	< 7.7 mg/m2/day	
	Transmission Rate of Hexane	EN ISO 15105-2	< 0.6 mg/m2/day	
	Transmission Rate of Vinyl Chloride	EN ISO 15105-2	< 0.05 mg/m2/day	
	Transmission Rate of Trichloroethene (TCE)	EN ISO 15105-2	< 54.7 mg/m2/day	
	Transmission Rate of Tetrachloroethene (P)	EN ISO 15105-2	< 26.2 mg/m2/day	
	Transmission Rate of Naphthalene	EN ISO 15105-2	< 0.0006 mg/m2/day	
Gas Permeability	Transmission Rate of CIS-1,2-Dichloroethy	EN ISO 15105-2	< 1.1 mg/m2/day	
	Methane Permeability	EN ISO 15105-1	0.13 ml/m2/day/atm	
	Methane Permeability (Jointed)	EN ISO 15105-1	1.00 ml/m2/day/atm	
	Carbon Dioxide Permeability	EN ISO 15105-1	3.01 ml/m2/day/atm	
	Vinyl Chloride Gas Permeability	EN ISO 15105-1	0.04 ml/m2/day/atm	
	Radon Permeability	K124/02/195	1.0 x 10-12 m2/S	

For technical assistance call: Stuart Reeves on **07984 208767**
 Help with sales or support are also available using: stuart@geoguard.uk

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TECHNICAL DATA continued

Feature	Characteristics	Test Method	Required Value=Actual Value
Durability and Chemical Resistance	Chemical Resistance - Sulfuric ACID (10% Solution of Sulfuric Acid (H ₂ SO ₄)) 50· For 56 Days	EN 14414-A	TENSILE STRENGTH RETAINED 100% RESULT - PASS
	Chemical Resistance - BASIC (Calcium Hydroxide Saturated Suspension) 50· For 56 Days	EN 14414-B	TENSILE STRENGTH RETAINED 100% RESULT - PASS
	Chemical Resistance - SOLVENTS (35% Diesel, 35% Paraffin, 30% Oil Hd3O (Vol)) 50· For 56 Days	EN 14414-C	TENSILE STRENGTH RETAINED >80% RESULT - PASS
	Chemical Resistance - SYNTHETIC LEACHATE (Mixture of 14 Acids, Chlorides, Sulphates & Phosphates) 50· For 56 Days	EN 14414-D	TENSILE STRENGTH RETAINED 100% RESULT - PASS
	Resistance to Leaching - HOT WATER (Deionised Water) 50· For 56 Days	EN 14415-A	TENSILE STRENGTH RETAINED 100% RESULT - PASS
	Resistance to leaching - AQUEOUS ALKALINE (Saturated Calcium Hydroxide) 50· For 56 Days	EN 14415-B	TENSILE STRENGTH RETAINED 100% RESULT - PASS
	Resistance to Leaching - ORGANIC ALCOHOL (30% Methanol, 30% Isopropanol, 40% Glycol) 50· For 56 Days	EN 14415-C	TENSILE STRENGTH RETAINED 100% RESULT - PASS
	Chemical Resistance - BENZENE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 95% (MD), 102% (CMD) RESULT - PASS
	Chemical Resistance - TOLUENE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 94% (MD), 91% (CMD) RESULT - PASS
	Chemical Resistance - ETHYL BENZENE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 99% (MD), 97% (CMD) RESULT - PASS
	Chemical Resistance - XYLENES - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 91% (MD), 106% (CMD) RESULT - PASS
	Chemical Resistance - TCE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 99% (MD), 93% (CMD) RESULT - PASS
	Chemical Resistance - PCE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 93% (MD), 93% (CMD) RESULT - PASS
	Chemical Resistance - NAPHTHALENE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 101% (MD), 93% (CMD) RESULT - PASS
	Chemical Resistance - HEXANE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 99% (MD), 104% (CMD) RESULT - PASS

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DESCRIPTION

RTEC 5 VOC is a high-performance VOCs and Hydrocarbons Environmental geomembrane. The membrane is extremely robust and provides protection from moisture therefore negates the need for a separate DPM. Suitable for hot-air and wedge welding.

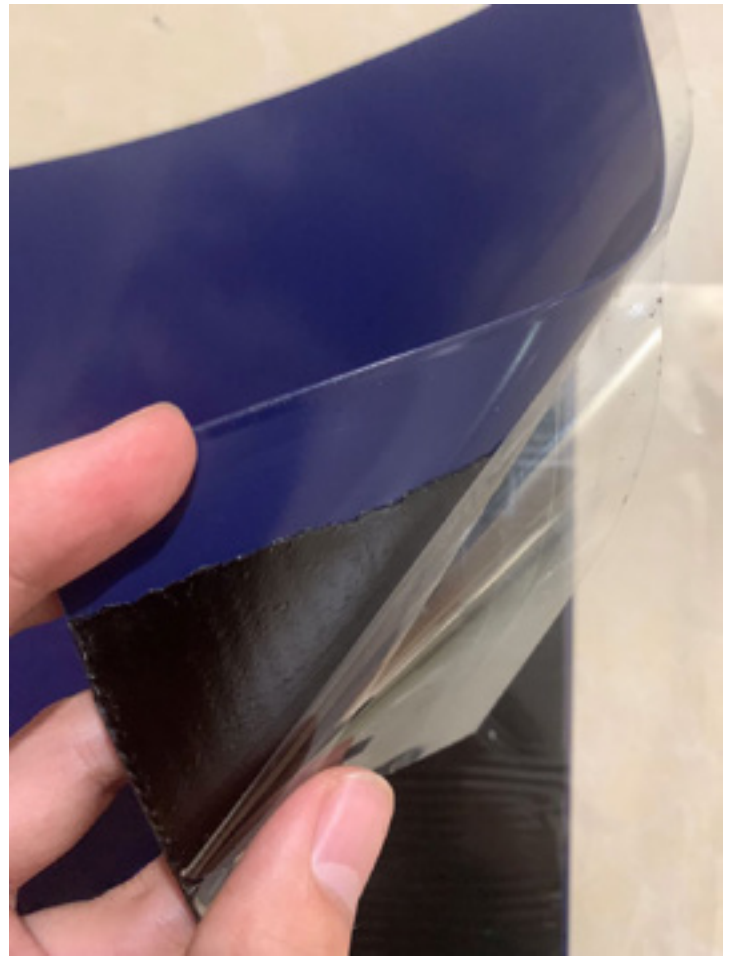
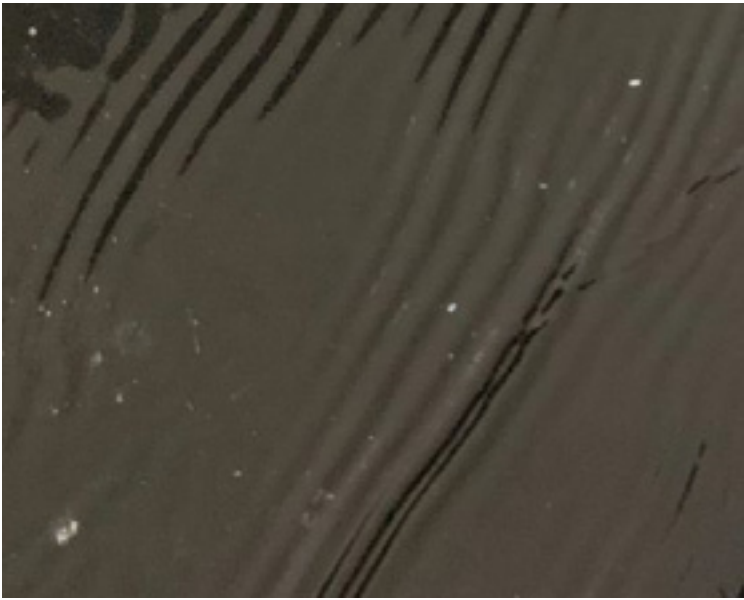
CE Certification standard EN13967:2012 EN13249:2016



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