RAYSTON HDPE

Geomembrane Sheet

TECHNICAL DATA

GEOMEMBRANE PROPERTIES	UNIT	TEST METHOD	VALUE				
Density	g / cm3	UNE-EN ISO 1183	≥0.940				
Carbon black content	%	UNE 53375	2-2.5				
Carbon black dispersion	-	ISO 18553	≤3				
Fluency index	g / 10min	UNE-EN ISO 1133	≤1				
Thickness	mm	EN 1849-2	0.50	1.00	1.50	2.00	3
Table foryou Of surface	g / m2	EN 1849-2	474	948	1422	1896	2844

PROPERTIES MECHANICAL RESISTANCE	UNIT	TEST METHOD	VALUE				
Resistance in the elastic limit	N / mm	UNE-EN ISO 527Type 5, 100mm / min	9 (8)	18 (16)	27 (24)	36 (32)	54 (48)
Elongation in the elastic limit	%		12 (8)				
Breaking strength	N / mm		16 (13)	32 (26)	48 (39)	64 (52)	96 (78)
Elongation at break	%		850 (700)				
Tear resistance	N	ISO 34	0.50	1.00	1.50	2.00	3
Static punch resistance (CBR)	KN	EN ISO 12236	474	948	1422	1896	2844

FUNCTIONAL PROPERTIES	UNIT	TEST METHOD	VALUE
Liquid permeability	m3 / m2day	EN 14150	<1.10-6
Gas tightness +/- 1%.	Cc / m2day	ASTM D 1434	0.006
Low temperature behavior	-	UNE-EN 495-5	No cracks No fissures
Linear expansion coefficient 10-4	1 / ºC	ASTM D 696	2.1

DURABILITY PROPERTIES	UNIT	TEST METHOD	VALUE				
UV aging, variation in elongation	%	EN 12224	≤15	≤15	≤15	≤15	≤15
Thermal aging	%	EN 14575	≤15	≤15	≤15	≤15	≤15
TIO Oxidation induction time	min	ASTM D 3895	> 100	> 100	> 100	> 100	> 100
ESCR / NCTL Stress Cracking Resistance	H	UNE-EN 14576	> 300	> 300	> 300	> 300	> 300

Values indicated are mean values; in brackets, the minimum values with a confidence level of 95%.

The information expressed is a guideline and should not be understood as a guarantee.

UNE-EN 13361 -13362. Polymeric barrier for use in reservoirs, channels and dams.
UNE-EN 13491. Polymeric barrier for the use of tunnels and underground structures.
UNE-EN 13492 - 13493. Polymeric barrier for the use of landfills for liquid and solid waste.
UNE-EN 15382. Geosynthetic barrier. Characteristics required for use in transportinfrastructure.
Intended use: waterproofing membrane against fluids and solids.

OTHER INFORMATION

The information contained in this TECHNICAL SHEET, as well as our advice, both written and provided verbally or through tests, are given in good faith based on our experience and the results obtained through tests carried out by independent laboratories, and without serving as such. guarantee for the applicator, who should take them as merely indicative references and with strictly informative value.
We recommend studying this information in depth before proceeding to the use and application of any of these products, although it is especially convenient to carry out tests "in situ" to determine the suitability of a treatment in place, with the purpose and conditions concrete that occur in each case.
Our recommendations do not exempt from the obligation that the applicator has to know in depth, the correct method of application of these systems before proceeding to their use, as well as to carry out as many preliminary tests as appropriate if there is doubt as to their suitability for any work, installation or repair, taking into account the specific circumstances in
which will be used the product.
The application, use and processing of our products are beyond our control and, therefore, under the sole responsibility of the installer. Consequently, the applicator will be solely and exclusively responsible for the damages derived from total or partial non-observance of the use and installation manual and, in general, from the inappropriate use or application of these products.

This data sheet cancels previous versions.

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