Geosynthetic EPS aggregate

Expanded polystyrene can remain buried in a wet environment for decades without degradation. By its nature EPS is a closed-cell foam. Closed cells allow only minimal amounts of moisture to be temporarily absorbed.

Polymers are large molecular weight compounds with normally a non-reactive structure. Chemical resistance of expanded polystyrene: as a general rule is virtually resistant to all aqueous media including dilute acids and bases. It is non-resistant to organic solvents and aromatic hydrocarbons. It is not attacked or degraded by long exposures to either bleach, soap solutions, or common household products that are poured down the drain. For a more accurate data on chemical resistance check the following document: HUNTSMAN TEC-I-009 data 06/30/06

It is a thermoplastic that can be heated, melted and recycled. Energy efficient both in their manufacture and processing. Lightweight material. It is not attacked by fungi, mold and/or mildew.

EPS PARTICLES	STANDARD	UNITS	VALUES
Bulk specific weight	UNE 92120-2:1998	kg/m^3	10
Specific weight	UNE 83134	kg/m^3	20
Void space	-	%	50
Specific surface	-	m^2/m^3	~230
Particle number	-	$units/m^3$	~115.000
Water absorption 7 days	UNE EN 12087:1997	%	2
Water absorption 21 days	UNE EN 12087:1997	%	2,2
Working temperature range	-	^oC	-50 to +65
Particle size distribution	UNE EN 933-1	% pass	<8 mm: 0 < 20 mm: 73 < 25 mm: 100
Color	-	-	Silver grey
Cell Structure	-	-	Fine, closed cell
Shape	-	-	Cubical with channels
Creep in compression	-	-	See C14XD619 & C15XD119
Life Span	-	-	Over 100 years
Recycled content	-	%	>85

EPS geosynthetic particles have a particular design to achieve high water flow and void space. They are made with high content of post-industrial recycled material with a narrow molecular weight distribution from strictly sorted sources. Cell size structure suitable for high compressive strength. It is not brittle at subzero temperatures.

- EPS recycling, raw material manufacturing and later multi-step expansion are Fumoso proprietary processes.
- drenotube® is a worldwide registered trademark.