

Data Sheet



XD-Eco - Polyethylene Sheet with Recycled Black Core



Raw Material

Core: Post Industrial Recycled (PIR) High Density Polyethylene (HDPE) - Black

Outer Layers: Virgin High Density Polyethylene (HDPE) - Broad choice of colours available

Dimensions

Sheet Size: 2440 x 1220 mm

Thickness: 12.5 mm / 15 mm / 19 mm

Tolerances

Thickness: +/- 0.5 mm

Length x Width: +/- 10 mm

Squareness: -0/+5 mm

Flatness: -0/+5 mm/mtr

Chemical and Physical Resistance

The chemical and physical resistance of these products to acids, bases and salt solutions, is very good.

In special cases, please contact us, especially for solvents.

General Properties	Test Method	Unit	Value
Density	UNE-EN ISO 1183-1	g/cm ³	0,944
Ultraviolet radiation			Good
Water Absorption	UNE-EN ISO 62	%	0,1
Horizontal Flammability	UL 94		HB
Mechanical Properties			
Strength	UNE-EN ISO 527-2	MPa	27,5
Elongation at strength	UNE-EN ISO 527-2	%	7,7
Stress at break	UNE-EN ISO 527-2	MPa	13,8
Elongation at break	UNE-EN ISO 527-2	%	147,8
Flexural modulus	UNE-EN ISO 178	MPa	1280
Flexural strength	UNE-EN ISO 178	MPa	29
Charpy impact strength	UNE-EN ISO 179	kJ/m ²	18,5
Durometrehardness	ISO 868	Shore D	65
Thermal Properties			
Melting point	UNE-EN ISO 11357-1		132,9
Thermal conductivity	ISO 52612-1	W/(m·K)	0,4
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁴ K ⁻¹	150 to 230
Temperature Range °C long term		°C	-100 to 80
Electrical Properties			
Dielectric constant	IEC 60250		2,46
Surface resistivity	IEC 60093	Ω	10 ¹⁵
Dielectric strength	IEC 60243	KV/mm	42

All information may vary as a result of working methods, aggregates, environmental influences etc. In case of recycled materials, wider tolerances on the properties can occur. All details are given without liability on our part.

In case of doubt, contact us for your specific application.