

DURPLASTICS

February 2020

Declaration of compliance

Declaration of compliance for the products made in the company Durplastics, S.A.

We hereby declare that:

Natural polyethylene sheets manufactured at Durplastics.

They are made of raw materials suitable for food contact following the requirements of the FDA in the U.S FDA 21 CFR 177.1520 based on the report of the trial N° L/0059530-1 made by the Technological Institute for children's products & leisure AIJU.

Quality Department

Discharge of responsibility

This information describes only the safety requirements of the product based on our current state of knowledge. This does not imply that the information is exhaustive in all cases. It is your responsibility to determine the validity of this information for the application in each case. It does not give any guarantee regarding the products described in the sense of the legal guarantee regulations.

UHMWPE-PRESSDUR

TECHNICAL DATA SHEET

PROPERTIES	TEST METHOD	UNIT	VALUE
GENERAL			
Description	UNE-EN ISO 1043-1		PE-UHMW
Density	UNE-EN ISO 1183-1	g/cm ³	0,93
Average molecular weight	Viscosimetry	mill. g/mol	5-6
Water Absorption	UNE-EN ISO 62	%	< 0.01
MECHANICAL			
Strength	UNE-EN ISO 527-1	MPa	27,5
Stress at break	UNE-EN ISO 527-1	MPa	21
Stiffness modulus	UNE-EN ISO 527-1	MPa	750
Elongation at break	UNE-EN ISO 527-1	%	460
Charpy impact strength	UNE-EN ISO 180	kJ/m ²	>120
Durometrehardness	ISO 868	-	62
Relative weight loss by weathering mixing	ISO 15527	-	100
THERMAL			
Melting point	UNE-EN ISO 11357-1/-3	°C	130,7
Thermal conductivity	UNE-EN ISO 52612-1	W/(m·K)	
Coefficient of linear thermal expansion	UNE-EN ISO 11357-1/-3	°C ⁻¹	1,5-2*10 ⁴
Vicat softening temperature	DIN-EN ISO 306	°C	80
Operating Temperature °C	Long term Short term	°C °C	120 200/+80
Flammability according UL94 3/6 mm thick	-	-	HB
ELECTRICAL			
Specific step resistance	IEC 62631-3-1	Ω* cm	> 10 ¹²
Surface resistivity	IEC 62631-3-1	Ω	> 10 ¹²
Dielectric strength	IEC 60243-1	KV/mm	45

This information solely describes the safety requirements of the products and is based on our current state of knowledge. This does not imply the information is exhaustive in all cases. It is your responsibility to determine the validity of this information for application in each case. It does not give any assurance concerning the products described within the meaning of statutory warranty regulations.

XTRUDUR

TECHNICAL DATA SHEET 01

PROPERTIES	TEST METHOD	UNIT	VALUE
GENERAL			
Density	UNE-EN ISO 1183-1	g/cm ³	0,937
Ultraviolet radiation			Good
Water Absorption	UNE-EN ISO 62	%	0,1
MECHANICAL			
Strength	UNE-EN ISO 527-2	MPa	26
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	1230
Flexural strength	UNE-EN ISO 178	MPa	29
Izod impact strength	UNE-EN ISO 180	KJ/m ²	18,5
Durometrehardness	ISO 868	Shore D	66
THERMAL			
Melting point	UNE-EN ISO 11357-1	°C	130,7
Thermal conductivity	UNE-EN ISO 52612-1	W/(m·K)	0,4
Coefficient of linear thermal expansion	UNE-EN ISO 11357-1/-3	10 ⁻⁴ K ⁻¹	150 to 230
Temperature Range °C long term		°C	-100 to 80
ELECTRICAL			
Dielectric constant	IEC 60250		2,46
Surface resistivity	IEC 60093	Ω	10 ¹⁵
Dielectric strength	IEC 60243	KV/mm	42

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