

## Multilene® PE

A weldable polyethylene, very tough and impact resistant, even at low temperatures. The material has a limited pressure resistance (creep), and a high coefficient of expansion (limited dimensionally stability). Multilene® PE has good anti-adhesion properties and good chemical resistance.

### General properties

	Test method	Value	Unit
ISO code:	ISO 1183	HDPE	
Density:	ISO 1183-1	0,95	g/cm3
Water absorption in Air (23°C / 50% RH)	ISO 62	0,01	%
Water absorption in Air (23°C / 100% RH)	ISO 62	0,01	%
Resistance to hot water	n/a	n/a	
Weather resistance	n/a	n/a	

### Mechanical properties

Elongation at break:	ISO 527	>50	%
Ball indentation hardness	ISO 2039	43	MPa
Tensile modules of elasticity	ISO 527	800	MPa
Charpy impact strength - notched	ISO 179	12	kJ/m2
Charpy impact strength - unnotched	ISO 179	No Break	kJ/m2
Compressive stress at 1%	n/a	5	MPa
Coefficient of friction	ASTM D 1894	0.1~0.2	

### Thermal properties

Melting temperature	n/a	135	°C
Max. allowable service temp (short period)	n/a	100	°C
Max. allowable service temp (long period)	n/a	80	°C
Min. service temperature	n/a	-40	°C
Coefficient of linear expansion	n/a	150	x10 -6 m/(m*K)
Flammability	UL94	HB	

### Electrical properties

Dielectric dissipation (at 1MHz)	ISO 60250	2,35	Ω
Electric strength	ISO 60243	45	kV/mm
Volume resistivity	ISO 60093	10^14	Ω.cm

Date of issue: 4 May 2018

Disclaimer: The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or in-complete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete; the information provided is not intended to be advice. ERIKS shall never be liable for damage resulting from the use of the information provided.