

## Multilene® PE-D

A tough and wear-resistant polyethylene, even at low temperatures. The material has a limited pressure resistance (creep), good anti-adhesion properties, and has good chemical resistance. This material quality is ideally suited for applications in the food industry and is available in various colors.

### General properties

	Test method	Value	Unit
ISO code:	ISO 1183	HMWPE	
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	48	MPa
Tensile modules of elasticity	ISO 527	1200	MPa
Charpy impact strength - notched	ISO 179	25	kJ/m2
Charpy impact strength - unnotched	ISO 179	No Break	kJ/m2
Compressive stress at 1%	n/a	6	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	-100	°C
Coefficient of linear expansion	n/a	150	x10 -6 m/(m*K)
Flammability	UL94	HB	

### Electrical properties

Dielectric dissipation (at 1MHz)	ISO 60250	2,3	Ω
Electric strength	ISO 60243	44	kV/mm
Volume resistivity	ISO 60093	10^14	Ω.cm

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