

Multilene® PP copolymer

A tough and impact resistant polypropylene plastic, with limited pressure and wear resistance. The material has very good anti-adhesion properties, very good chemical resistance and excellent welding.

General properties	Test method	Value	Unit
ISO code:	ISO 1183		
Density:	ISO 1183-1	0,91	g/cm3
Water absorption in Air (23°C / 50% RH)	ISO 62	<0,1	%
Water absorption in Air (23°C / 100% RH)	ISO 62	<0,1	%
Resistance to hot water	n/a	+	
Weather resistance	n/a	-	
Mechanical properties			
Elongation at break:	ISO 527	>50	%
Ball indentation hardness	ISO 2039	50	MPa
Tensile modules of elasticity	ISO 527	1100	MPa
Charpy impact strength - notched	ISO 179	40	kJ/m2
Charpy impact strength - unnotched	ISO 179	No Break	kJ/m2
Compressive stress at 1%	n/a	7	MPa
Coefficient of friction	ASTM D 1894	0,3-0,4	
Thermal properties			
Melting temperature	n/a	162	°C
Max. allowable service temp (short period)	n/a	150	°C
Max. allowable service temp (long period)	n/a	100	°C
Min. service temperature	n/a	-20	°C
Coefficient of linear expansion	n/a	120	x10 -6 m/(m*K)
Flammability	UL94	HB	
Electrical properties			
Dielectric dissipation (at 1MHz)	ISO 60250	n/a	Ω
Electric strength	ISO 60243	45	kV/mm
Volume resistivity	ISO 60093	>10^14	Ω.cm

Date of issue: 4 May 2018

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