

**Material Specification
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Low Density PolyEthylene (LDPE)**General Information**High impact strength
Good processing propertiesHigh flexibility
High elongation at break**Applications**

Plumbing industry

Automotive industry

	Test Method	Unit	Guidance Value
General Properties			
Density	DIN EN ISO 1183-1	g/cm ³	0.92
Water Absorption	DIN EN ISO 62	%	<0.1
Flammability (Thickness 3mm/6mm)	UL94		HB
Mechanical Properties			
Yield Stress	DIN EN ISO 527	Mpa	11
Elongation at Break	DIN EN ISO 527	%	>50
Tensile Modules of Elasticity	DIN EN ISO 527	Mpa	200
Notched Impact Strength	DIN EN ISO 179	kJ/m ²	85
Shore Hardness	DIN EN ISO 868	Scale D	45
Thermal Properties			
Melting Temperature	ISO 11357-3	°C	110
Thermal Conductivity	DIN 52612-1	W (m * K)	0.35
Thermal Capacity	DIN 52612	kJ (kg * K)	2.10
Coefficient of Linear Thermal Expansion	DIN 53752	10 ⁻⁶ /K	150-230
Service Temperature, Long Term	Average	°C	-50.....60
Service Temperature, Short Term (max.)	Average	°C	90
Vicat Softening Temperature	DIN EN ISO 306, Vicat B	°C	96
Electrical Properties			
Dielectric Constant	IEC 60250		2.4
Dielectric Dissipation Factor (50 Hz)	IEC 60250		0.0006
Volume Resistivity	DIN EN 62631-3-1	Ω* cm	>10 ¹⁴
Surface Resistivity	DIN EN 62631-3-2	Ω	10 ¹⁴
Comparative Tracking Index	IEC 60112		600
Dielectric Strength	IEC 60243	kV/mm	45

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