

Lasenic® LDPE Properties Data Sheet

① Raw material description

Standard Grade:	Extrusion grade	Appearance color:	---
Application:	Processing materials, sheet, board, strip, tube. Used as film products, and injecting products, medical instruments, drug and food package material, hollow blow molding products.		
Remarks:	Charactors: Acid-base resistance, organic solvent resistance, superior dielectrical property.		

② Raw material technical data sheet

Property item	Test conditions	Testing method	Testing data	Unit
I. Physical property				
Density	---	ASTM D792	0.92	g/cm ³
Shrinkage	---	ASTM D955	1.5~5	%
Balanced water absorption	---	ASTM D570	< 0.01	%
Flammability class	---	UL94	HB	Class
II. Mechanical property				
Yield strength	---	ASTM D256	> 8	N/mm ²
Elasticity modulus (stretch)	---	ASTM D638	≥ 180	N/mm ²
Impact strength (Chipped)	---	ASTM D256	80~90	kJ/m ²
Tensile strength	---	ASTM D638	7~15	MPa
Tensile strength at break	---	ASTM D638	12	N/mm ²
Elongation at break	---	ASTM D638	650	%
Hardness-Rockwell	---	ASTM D785	45	R (Scale)
coefficient of friction	---	ASTM D3702	0.6	---
III. Thermal property				
Thermal deformation temperature	1.86MPa	ASTM D648	50	°C
Max. working temperature(long time)	---	UL794B	70	°C
Melting temperature	---	ASTM D2133	108~126	°C
Brittle temperature	---	ASTM D746	-70	°C
Thermal conductivity	23°C	ASTM C177	0.35	W/(K*m)
Coefficient of linear thermal expansion	---	ASTM D696	20~24	×10 ⁻⁵ K ⁻¹
IV. Electrical property				
Dielectric constant	---	ASTM D150	2.28~2.32	10 ⁶ Hz
Dielectric loss angle tangent	---	ASTM D150	0.0003	10 ⁶ Hz
Dielectric strength	---	ASTM D149	> 20	kV/mm
Volume resistivity	---	ASTM D257	10 ¹⁵	Ω*cm

Surface resistivity	---	ASTM D257	$> 10^{15}$	Ω
Electric arc resistance	---	ASTM D495	115	sec
NOTE: $1 \text{ g/cm}^3 = 1,000 \text{ kg/m}^3$, $1 \text{ Mpa} = 1 \text{ N/mm}^2$, $1 \text{ kV/mm} = 1 \text{ MV/m}$				
Statement: NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Quanda will not provide any legally binding guarantee of certain properties, or any suitability.				