



**Engineering
Plastics**

QUANDA
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Typical Properties Data Sheet

The Supplier of Engineering Plastics
Rods, Sheets, Tubes, Profiles and Machining Parts

Lasenic® HDPE Properties Data Sheet

① Raw material description

Standard Grade:	Extrusion grade	Appearance color:	---
Application:	Processing materials, sheet, strip, tube. Used for extrude packing film, rope, woven bag, fishing net, water pipe, injecting underdrive commodity and shell, no-bearing load components, turnover box.		
Remarks:	Characters: acid-base resistance, organic solvent resistance, superior dielectrical property, can keep the certain tenacity at low temperature.		

② Raw material technical datasheet

Property item	Test conditions	Testing method	Testing data	Unit
I. Physical property				
Density	---	ASTM D792	0.95	g/cm ³
Shrinkage	---	ASTM D955	2~5	%
Balanced water absorption	---	ASTM D570	< 0.01	%
Flammability class	---	UL94	HB	Class
II. Mechanical property				
Impact strength (No chipped)	---	ASTM D256	30	kJ/m ²
Impact strength (chipped)	---	ASTM D256	40~70	kJ/m ²
Tensile strength	---	ASTM D638	30	MPa
Tensile strength at break	---	ASTM D638	35	MPa
Elongation at break	---	ASTM D638	500	%
Hardness-Rockwell	---	ASTM D785	40	R (Scale)
Hardness-Shore D	---	ASTM D2240	65	D
Coefficient of friction	---	ASTM D3702	0.28	---
III. Thermal property				
Thermal deformation temperature	1.86MPa	ASTM D648	78	°C
Max. working temperature (short time)	---	UL746B	< 120	°C
Max. working temperature (long time)	---	UL746B	90	°C
Melting temperature	---	ASTM D2133	135	°C
Brittle temperature	---	ASTM D746	< -140	°C
Thermal conductivity	23°C	ASTM C177	0.42	W/(K*m)
Coefficient of linear thermal expansion	---	ASTM D696	12~13	×10 ⁻⁵ K ⁻¹
IV. Electrical property				
Dielectric constant	---	ASTM D150	2.34~2.38	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 g/cm³ = 1,000 kg/m³, 1 Mpa = 1 N/mm², 1kV/mm = 1 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.				