



**Engineering
Plastics**

QUANDA

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Typical Properties Data Sheet

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

Lasenic® Rigid PVC Technical Property Data Sheet

① raw material description

Standard grade:	Extrusion grade	Appearance color:	Gray
Application:	Processing material, rods, plates, sheets, tubes. It was used for chemical resistant storage tanks, tubes and other containers; construction lumber, doors and windows, water tubes, siding, flooring, duct; anti-corrosion equipment supports, zero components.		
Characteristics:	Good corrosion resistance, high hardness, high strength, anti-ultraviolet (anti-aging), fire retardant (self-extinguishing), reliable insulation properties, the surface is smooth, non-absorbent, non-deformation, easy to process.		

② raw materials technical data

Property item	Test conditions(status)	Test method	Test data	Unit
I. Physical properties				
Density	---	ASTM D792	1.4~1.6	g/cm3
Shrinkage	---	ASTM D955	0.6-1.0	%
Equilibrium water absorption	23°C 60%RH	ASTM D570	0.2	%
Flammability class	---	UL94	V-0	Class
II. Mechanical properties				
Impact strength(No notch)	---	ASTM D256	450	J/m
Impact strength(notched)	---	ASTM D256	2.2~10.6	KJ/m ²
Tensile strength	---	ASTM D638	50	MPa
Compression strength	---	ASTM D695	20.5	MPa
Flexural strength	---	ASTM D-790	70	MPa
Flexural modulus	---	ASTM D-790	2400	MPa
Elongation at break	---	ASTM D638	10	%
Hardness- Shore D	---	DIN 53505	95	D
Friction coefficient	---	DIN 53375	0.4	---
III. Thermal properties				
Heat deflection temperature-HDT/A	---	ASTM D648	70	°C
Max.working temperature-Interrupted	---	UL746B	90	°C
Max.working temperature-long time	---	UL746B	60	°C
Melting point	---	ASTM D2117	120	°C
Brittle temperature	---	ASTM D746	-70	°C
Thermal conductivity	23°C	ASTM D177	0.16	W/(m*k)
Coefficient of linear thermal expansion	---	ASTM D696	8	×10 ⁻⁵ K ⁻¹

IV. Electrical properties				
Dielectric constant	---	ASTM D150	3.2~3.6	10 ⁶ Hz
Dielectric dissipation	---	ASTM D151	0.02	10 ⁶ Hz
Dielectric strength	---	ASTM D149	30	KV.mm
Volume resistivity	---	ASTM D257	10 ¹³ ~10 ¹⁵	Ω*cm
Surface resistivity	---	ASTM D257	10 ¹⁵	Ω
Arc resistant	---	ASTM D495	70	Sec
NOTE: 1 g/cm ³ = 1,000 kg/m ³ , 1 Mpa = 1 N/mm ² , 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.				