



**Engineering
Plastics**

QUANDA

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Typical Properties Data Sheet

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

Lasenic®Transparent ABS Technical Data Property Sheet

①raw materials description

Standard grade:	Extrusion grade	Appearance color:	Transparent
Application:	Processing material, rod, sheet, plate, tube; widely used for hand model, building models, food industry, phase electronic industrial components, refrigerators refrigeration industry. In the electrical and electronic fields, transparent ABS can also be used to make the antenna socket, coil, wiring boards, switches, speakers and connectors.		
Characteristics:	High impact resistance and high toughness (also applies to low temperatures), high mechanical strength, high stiffness, high surface hardness, easy to scratch, transparency, low water absorption, high dimensional stability, easy processing.		

②raw materials technical data

Property item	Test conditions(status)	Test method	Test data	Unit
I.Physical properties				
Density	23°C	ASTM D792	1.09	g/cm ³
Shrinkage	---	ASTM D955	0.3~0.8	%
Equilibrium water absorption	23°C 60%RH	ASTM D570	0.5	%
Transmittance	---	---	83	%
Flammability class	---	UL94	HB	Class
II .Mechanical properties				
Tensile strength	---	ASTM D638	54	MPa
Elongation at break	---	ASTM D638	48	%
Flexural strength	---	ASTM D790	20	MPa
Flexural modulus of elasticity	---	ASTM D790	1800	MPa
Compression strength	---	ASTM D790	70	MPa
Hardness-Shore D	---	ASTM D2240	80	D
Impact strength	---	ASTM D256	180	J/m ²
Friction coefficient	---	ASTM D1894	0.5	---
III.Thermal properties				
Heat deflection temperature-HDT/A	---	ASTM D648	80	°C
Max.working temperature-short time	---	UL746B	90	°C
Max.working temperature-long time	---	UL746B	70	°C
Melting point	---	DSC	150	°C
Brittle temperature	---	ASTM D746	>-40	°C

Thermal conductivity	---	ASTM C177	0.15	W/(m*K)
Coefficient of linear thermal expansion	---	ASTM D696	9	10 ⁻⁵ K ⁻¹
IV. Electrical properties				
Dielectric constant	---	ASTM D150	3.3	---
Dielectric dissipation factor	---	ASTM D150	0.015	---
Dielectric strength	---	ASTM D150	22	kV/mm
Volume resistivity	---	ASTM D257	10 ¹⁵	Ω * cm
Surface resistivity	---	ASTM D257	10 ¹⁴	Ω
Arc resistant	---	ASTM D495	66~82	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.