



**Engineering  
Plastics**

**QUANDA**

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# Typical Properties Data Sheet

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

## Lasenic® ABS Properties Data Sheet

### ① Raw material description

<b>Standard Grade:</b>	Extrusion grade	<b>Appearance color:</b>	---
<b>Application:</b>	Processing material,rod, sheet,board,tube.Widely used in automobile,electronics, office and communication equipments.		
<b>Character::</b>	With superior impact strength and surface hardness in uniform temperature,superior dimenison stability,certain chemical resistance and superior dielectrical property.		

### ② Raw material technical datasheet

Property item	Test conditions	Testing method	Testing data	Unit
<b>I.Physical property</b>				
<b>Gravity</b>	23°C	ASTM D792	1.03~1.07	g/cm <sup>3</sup>
<b>Shrinkage</b>	---	ASTM D955	0.3~0.8	%
<b>Water absorption</b>	---	ASTM D570	0.2~0.45	%
<b>Flammability class</b>	---	UL94	HB	Class
<b>II .Mechanical property</b>				
<b>Tensile strength</b>	---	ASTM D638	50	MPa
<b>Elongation at break</b>	---	ASTM D638	20	%
<b>Flexural Strength</b>	---	ASTM D790	70	MPa
<b>Flexural Modulus of elasticity</b>	---	ASTM D790	1.76~2.94	GPa
<b>Compression strength</b>	---	ASTM D790	70	MPa
<b>Hardness— Rockwell</b>	---	ASTM D785	65~109	R (Scale)
<b>Hardness—Shore D</b>	---	ASTM D2240	83	D
<b>IZOD Impact Strength</b>	23°C	ASTM D256	150	KJ/m <sup>2</sup>
<b>IZOD Impact Strength (notched)</b>	23°C	ASTM D256	27	KJ/m <sup>2</sup>
<b>Friction Coefficient</b>	---	ASTM D1894	0.5	---
<b>III.Thermal Properties</b>				
<b>Heat deflection temperature HDT/A</b>	1.82MPa	ASTM D648	87	°C
<b>Max.working temperature(short term)</b>	---	UL746B	100	°C
<b>Max.working temperature(long term)</b>	---	UL746B	75	°C
<b>Vicat Softening Temperature</b>	50N,120°C/h	ASTM D1525	100	°C
<b>Brittle temperature</b>	---	ASTM D746	>-40	°C

<b>Thermal conductivity</b>	23°C	ASTM C177	0.16~0.29	W/(m*K)
<b>Coefficient of linear thermal expansion</b>	---	ASTM D696	8~11	10 <sup>-5</sup> K <sup>-1</sup>
<b>IV. Electrical properties</b>				
<b>Dielectric Constant</b>	1 MHz	ASTM D150	2.4~3.8	10 <sup>6</sup> Hz
<b>Dielectric loss angle tangent</b>	1 MHz	ASTM D150	0.009	10 <sup>6</sup> Hz
<b>Dielectric strength</b>	---	ASTM D149	13~20	kV/mm
<b>Volume resistivity</b>	---	ASTM D257	10 <sup>16</sup>	Ω * cm
<b>Surface resistivity</b>	---	ASTM D257	10 <sup>14</sup>	Ω
<b>Arc-resistance</b>	---	ASTM D495	66~82	sec
<b>NOTE: 1 g/cm<sup>3</sup> = 1,000 kg/m<sup>3</sup>, 1 Mpa = 1 N/mm<sup>2</sup>, 1kV/mm = 1 MV/m</b>				
<b>Statement:</b>				
<b>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.</b>				