



Typical Properties Data Sheet

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

Lasenic® PS Properties Data Sheet

① Raw material description				
Standard Grade:	Extrusion grade	Appearance color:	---	
Application	Processing materials,rod, sheet,board,tube. Used in artisan market,daily decorate,illumination indication and package			
Remarks:	Charactors: easy for machine shaping,transparent,cheap,rigidity,insulative,easy printing			
② Raw material technical datasheet				
Property item	Test conditions	Testing method	Testing data	Unit
I.Physical property				
Density	23°C	ASTM D792	1.05	g/cm ³
Shrinkage	---	ASTM D955	0.3~0.6	%
Water absorption	---	ASTM D570	<0.1	%
Flammability class	---	UL94	HB	Class
II .Mechanical property				
Tensile strength	---	ASTM D638	50	MPa
Elongation at break	---	ASTM D638	3	%
Flexural strength	---	ASTM D790	105	MPa
Flexural modulus	---	ASTM D790	3200	MPa
Compressive strength	---	ASTM D790	115	MPa
Hardness-Shore D	---	ASTM D785	65~90	M (Scale)
Cantilever beam tensile strength (Unnotched)	23°C	ASTM D256	10	KJ/m ²
III.Thermal property				
Thermal deformation temperature	anneal	ASTM D648	88	°C
Max. working temperature(short time)	---	UL746B	80	°C
Max. working temperature(long time)	---	UL746B	60~75	°C
Vicat softening temperature	B/50 (50N, 50oC/h)	ASTM D1525	101	°C
Brittle temperature	---	ASTM D746	-30	°C
Thermal conductivity	23°C	ASTM C177	0.14	W/(m*K)
Coefficient linear thermal expansion	---	ASTM D696	8	10 ⁻⁵ K ⁻¹
IV.Electrical property				
Dielectric constant	1 MHz	IEC 60250	2.40~2.65	10 ⁶ Hz
Dielectric loss angle tangent	1 MHz	IEC 60250	(1~2) ×10 ⁻⁴	10 ⁶ Hz
Dielectric strength	---	IEC 60243	20~28	kV/mm
Volume resistivity	---	IEC 60093	>10 ¹⁷	Ω * cm
Surface resistivity	---	IEC 60093	>10 ¹³	Ω
Electric arc resistance	---	IEC 112	60~135	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.				