



**Engineering
Plastics**

QUANDA

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Typical Properties Data Sheet

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

Lasenic® HIPS Properties Data Sheet

① Raw material description

Standard Grade:	Extrusion grade	Appearance color:	---
Application:	Processing materials, rod, sheet, board, tube. Used for household appliance shell, daily supplies, toy, minitype instrument, air-condition, internal part of television.		
Remarks:	Characters: High impact resistance, good processability, non-corrosiveness, transparent, cheap, rigidity, insulation, easy for 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	---	ASTM D638	3	%
Flexural strength	---	ASTM D790	30	MPa
Flexural modulus	---	ASTM D790	2200	MPa
Compressive strength	---	ASTM D790	115	MPa
Hardness-Rockwell	---	ASTM D785	64	M (Scale)
Cantilever beam impact strength (No chipped)	---	ASTM D256	10	KJ/m ²
Cantilever beam impact strength (chipped)	3.2mm	ASTM D256	7	KJ/m ²
III. Thermal property				
Thermal deformation temperature	Anneal	ASTM D648	80	°C
Max. working temperature (short time)	---	UL746B	80	°C
Max. working temperature (long time)	---	UL746B	60~75	°C
Vicat softening temperature	---	ASTM D-1526	101	°C
Brittle temperature	---	ASTM D746	-30	°C
Thermal conductivity	23°C	ASTM C177	0.14	W/(m*K)
Coefficient of linear thermal expansion	---	ASTM D696	8	10 ⁻⁵ K ⁻¹
IV. Electrical property				
Dielectric constant	1 MHz	ASTM D150	2.40~2.65	10 ⁶ Hz
Dielectric loss angle tangent	1 MHz	ASTM D150	(1~2) × 10 ⁻⁴	10 ⁶ Hz
Dielectric strength	---	ASTM D149	20~28	kV/mm
Volume resistivity	---	ASTM D257	>10 ¹⁷	Ω * cm

Surface resistivity	---	ASTM D257	$> 10^{13}$	Ω
Electric arc resistance	---	ASTM D495	60~135	sec

NOTE: $1 \text{ g/cm}^3 = 1,000 \text{ kg/m}^3$, $1 \text{ Mpa} = 1 \text{ N/mm}^2$, $1 \text{ kV/mm} = 1 \text{ MV/m}$

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.