Engineering Plastics
QUANDA
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Lasenic® Anti-UV HDPE Properties Data Sheet

①Raw material description			
Standard Grade:	Extrusion grade	**Appearance color:**	---
Application:	Processing materials,sheet,strip,tube.Used for extrude packing film,rope,woven bag,fishing net,water pipe,injecting underdrive commodity and shell,no-bearning load components,turnover box.		
Remarks:	Charactors: acid-base resistance,organic solvent resistance,superior dielectrical property,can keep the certain tenacity at low temperature.		

②Raw material technical datasheet				
Property item	**Test conditions**	**Testing method**	**Testing data**	**Unit**
I.Physical property				
Density	---	ASTM D792	0.954	g/cm^3
Shrinkage	---	ASTM D955	2~5	%
Balanced water absorption	---	ASTM D570	＜0.01	%
Flammability class	---	UL94	HB	Class
Ⅱ.Mechanical property				
Impact strength	---	ASTM D256	≥9.0	kJ/m^2
The yield strength	---	ASTM D256	23.52	MPa
QuRao strength	---	ASTM D256	882	MPa
Tensile strength	---	ASTM D638	30	MPa
Tensile strength at break	---	ASTM D638	35	MPa
Elongation at break	---	ASTM D638	500	%
Hardness-Rockwell	---	ASTM D785	40	R （Scale）
Hardness-Shore D	---	ASTM D2240	65	D
Coefficient of friction	---	ASTM D3702	0.28	---
Ⅲ.Thermal property				
Thermal deformation temperature	1.86MPa	ASTM D648	78	℃
Max. working temperature(short time)	---	UL746B	＜120	℃
Max. working temperature(long time)	---	UL746B	90	℃
Melting temperature	---	ASTM D2133	135	℃
Brittle temperature	---	ASTM D746	＜－140	℃
Thermal conductivity	23°C	ASTM C177	0.42	W/(K*m)
Coefficient of linear thermal expansion	---	ASTM D696	12~13	$\times10^{-5}K^{-1}$
Ⅳ.Electrical property				
Dielectric constant	---	ASTM D150	2.34~2.38	10^6Hz
Dielectric loss angle tangent	---	ASTM D150	0.0003	10^6Hz
Dielectric strength	---	ASTM D149	＞20	kV/mm
Volume resistivity	---	ASTM D257	10^{15}	Ω*cm

Surface resistivity	---	ASTM D257	$>10^{15}$	Ω
Electric arc resistance	---	ASTM D495	115	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.