Since 1964

恆祥龍®工程塑膠 物性表

Technical Properties of HiShiRon® Engineering Plastics

性 質 Characteristic		方 法 Method of verification	單 位 Unit	聚氯乙烯-U U-PVC
I. 物理特性	**I. Physical Properties**			
比重	Density	ISO 1183	g/cm^3	1.36
吸水率（飽和）	Water absorption	ISO 62	%	0.20
II. 機械特性	**II. Mechanical Properties**			
降伏點拉力強度	Tensile strength at yield	ISO 527-2	MPa	55
斷裂拉力強度	Tensile strength at break	ISO 527-2	MPa	30
斷裂伸長率	Elongation at break	ISO 527-2	%	≧ 10
彈性模數—拉力試驗後	Modulus of elasticity after tensile test	ISO 527-2	MPa	
彈性模數—彎曲試驗後	Modulus of elasticity after flexural test	ISO 178	MPa	
硬度— 洛氏	Hardness - Rockwell	ISO 2039-2		-
硬度— 薛氏D	Hardness - Shore D	DIN 53505		82
衝擊強度	Charpy impact strength at 23℃	ISO 179	kJ/m^2	
磨擦係數	Friction coefficient	DIN 53375		0.60
III. 熱特性	**III. Thermal Properties**			
熱變形溫度—HDT/A	Heat deflection temperature - HDT/A	ISO 75-2	℃	-
最高使用溫度—短時間	Max. service temperature - Short term		℃	-
最高使用溫度—長期	Max. Service Temperature - Long term		℃	60
熱傳導係數	Thermal conductivity at 23 ℃	DIN 11359	W/(K*m)	0.14
線性熱膨脹係數	Coefficient of linear thermal expansion	ISO 11359	$10^{-4} * K^{-1}$	0.80
IV. 電氣特性	**IV. Electrical Properties**			
介電常數	Dielectric constant at 1 MHz	IEC 60250	10^6 Hz	3.00
介電損失係數	Dielectric loss factor at 1 MHz	IEC 60250	10^6 Hz	0.01
體積阻抗	Volume resistively	IEC 60093	Ohm (Ω) * cm	≧ 10^{15}
表面阻抗	Surface resisively	IEC 60093	Ohm (Ω)	≧ 10^{13}
介電強度	Dielectric strength	IEC 60243-1	kV/mm	20 - 40
V. 其他參考數據	**V. Miscellaneous Data**			
燃燒能力	Flammability	UL 94	Class	V-0

NOTE: 1 g/cm^3 = 1,000 kg/m^3, 1 Mpa = 1 N/mm^2, 1kV/mm = 1 MV/m

聲明 / Statement：

上述數據資料爲現有訊息，表示個別測量的平均數據，代表恆祥龍®的產品及現有可取得之各項特性。

恆祥龍®不提供任何有關某特定用途的確定性質或適用性的法律保證責任。

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They are as HiShiRon® products and possible application.

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斷裂拉力強度	Tensile strength at break	ISO 527-2	MPa	80
斷裂伸長率	Elongation at break	ISO 527-2	%	15
彈性模數—拉力試驗後	Modulus of elasticity after tensile test	ISO 527-2	MPa	
彈性模數—彎曲試驗後	Modulus of elasticity after flexural test	ISO 178	MPa	
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