

GAFONE™ PES 物性表

項 目 Property		試驗法 ASTM Method	單 位 Units	PES							
				3100	3300	3400	3500	3600	3420GF	3330GF	3430GF
一般性質	比重 Specific Gravity	D792	-	1.37	1.37	1.37	1.37	1.37	1.51	1.58	1.58
	吸水率(24 hours) Water Absorption	D570	%	0.56	0.56	0.56	0.56	0.56	0.50	0.50	0.50
	成型收縮率-3.18mm 截面 Mold Shrinkage-3.18mm section	D955	%	0.7	0.7	0.7	0.7	0.7	0.4	0.3	0.3
	填充含量 Filler content	-	%	0	0	0	0	0	20	30	30
機械性質	伸張強度 Tensile Strength	D638	MPa	91	90	90	90	90	120	140	140
	伸張模數 Tensile Modulus	D638	MPa	2600	2800	2800	2800	2800	7000	10000	10000
	伸延斷裂 Tensile Elongation at Break	D638	%	>50	25~75	25~75	25~75	25~75	3.0	2.0	2.0
	彈性強度 Flexural Strength	D790	MPa	124	120	120	120	120	175	200	200
	彈性模數 Flexural Modulus	D790	MPa	2700	2600	2600	2600	2600	6500	9000	9000
	衝擊強度(缺口) Impact Strength-Notched Izod	D256	J/m	70	50	50	50	50	60	90	90
熱性質	熱變形溫度 DTUL at 264 psi (1.82 MPa)	D648	°C	200	200	200	200	200	210	215	215
	玻璃轉化溫度 Glass Transition Temp.	D3482	°C	225	225	225	225	225	225	225	225
	連續使用溫度 Continuous Use Temp.	UL-746 B	°C	180	180	180	180	180	185	190	190
	線性熱膨脹係數 Coefficient of Linear Thermal Expansion	D696	10 ⁻⁵ /°C	5.7	5.7	5.7	5.7	5.7	-	2.5	2.5
電氣性質	介電強度 Dielectric Strength	D149	kV/mm	16	16	16	16	16	20	20	20
	介電常數 Dielectric Constant @ 60 Hz	D150	-	3.2	3.2	3.2	3.2	3.2	-	-	-
	介電損失 Dissipation Factor @ 60 Hz	D150	-	0.004	0.004	0.004	0.004	0.004	-	-	-
	體積固有電阻 Volume Resistivity	D257	Ohm-cm	>10 ¹⁶	>10 ¹⁶	>10 ¹⁶	>10 ¹⁶	>10 ¹⁶	>10 ¹⁶	>10 ¹⁶	>10 ¹⁶
	表面電阻 Surface Resistivity	D257	Ω/SQ	>10 ¹⁴	>10 ¹⁴	>10 ¹⁴	>10 ¹⁴	>10 ¹⁴	>10 ¹⁴	>10 ¹⁴	>10 ¹⁴
	相對電痕指數 Comparative Tracking Index	D3638	V	150	150	150	150	150	150	150	150
	耐電弧性 Arc Resistance	D495	sec	50	50	50	50	50	-	80	80
防火性	防火等級 Flammability thickness	UL-94	-	V-0@0.8 mm	V-0@0.8 mm	V-0@0.8 mm	V-0@3.2 mm	V-0@3.2 mm	V-0@0.8 mm	V-0@0.8 mm	V-0@0.8 mm
	臨界含氧指數 Limiting Oxygen Index	D2863	%	40	40	40	40	40	41	42	42

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.