



POM 系列複合材料物性表

compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	POM, Anti-static-1	POM, Anti-static-2	POM FR, CB	POM, CB, PTFE10	POM, CF
一般性質	比重 Specific Gravity	D792	-	1.33	1.33	1.38	1.42	1.43
	成型收縮率 Mold Shrinkage	6.35mm截面	%	-	-	-	-	-
		3.18mm截面		1.8~2.5	2	2~3	1.8~2.5	0.3~0.5
吸水率(24 hours) Water absorption, 24 hrs @ 23°C	D570	%	-	-	-	-	-	
機械性質	衝擊強度 Impact Strength	3.18mm截面(缺口) Notched Izod	J/m	107	134	69	53	53
		3.18mm截面(無缺口) Unnotched Izod		No Break	No Break	801	801	214
	伸張強度 Tensile Strength	D638	MPa	43	43	41	38	69
	延伸率 Tensile Elongation	D638	%	>10	>10	7~10	9~12	1~3
	伸張模數 Tensile Modulus	D638	MPa	1379	1723	2068	1931	8964
	彈性強度 Flexural Strength	D790	MPa	55	48	62	55	103
	彈性模數 Flexural Modulus	D790	MPa	1724	1585	1724	1793	7584
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	
熱性質	熱變形溫度 DTUL	at 264 psi (1.82 MPa)	°C	-	93	-	-	-
		at 66 psi (0.455 MPa)		-	-	-	-	-
	連續使用溫度 Continuous Use Temp.	UL-746B	°C	-	-	-	-	-
	線性熱膨脹係數 Coefficient of Linear Thermal Expansion	D 696	10 ⁻⁵ /°C	-	-	-	-	-
防火等級 Flammability thickness	-	-	-	-	HB @ 1.5 mm	-	-	
電氣性質	體積固有電阻 Volume Resistivity	D257	ohm-cm	1e9~9.9e10	10e7~10e8	<1e4	<1e4	<1e3
	表面電阻 Surface Resistivity	D257	ohm/SQ	1e10~9.9e11	10e8~10e9	<1e7	<1e7	<1e6
	靜電消散(MIL-PRF-81705C) Static Decay	FTMS-4046.1	sec	<2	<2	<2	<2	<2

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.