



PEEK* 系列複合材料物性表

compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	PEEK, GF10	PEEK*, GF20	PEEK*, GF30	PEEK*, CF10	PEEK*, CF20	PEEK*, CF30	
一般性質	比重 Specific Gravity	D792	-	1.37	1.44	1.52	1.33	1.36	1.41	
	成型收縮率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	
		3.18mm截面			0.6	0.4	0.3	0.2	0.1	0.05
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	D256	J/m	53	64	85	48	69	80
		3.18mm截面(無缺口) Unnotched Izod			374	641	801	534	694	747
	伸張強度 Tensile Strength		D638	MPa	103	152	183	186	228	262
	延伸率 Tensile Elongation		D638	%	2.5	2.7	2.5	2.5	1.7	1.6
	伸張模數 Tensile Modulus		D638	MPa	6206	8964	11722	11032	19036	26201
	彈性強度 Flexural Strength		D790	MPa	186	248	276	262	331	379
	彈性模數 Flexural Modulus		D790	MPa	5516	8274	11032	9653	16548	24822
洛氏硬度 Rockwell Hardness		D785	-	-	-	-	-	-	-	
熱性質	熱變形溫度 DTUL	at 264 psi (1.82 MPa)	D648	°C	-	288	316	-	316	316
		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		-	-	**V-0 @ 1.5 mm	**V-0 @ 1.5 mm	**V-0 @ 1.5 mm	**V-0 @ 1.5 mm	**V-0 @ 1.5 mm	**V-0 @ 1.5 mm	
電氣性質	體積固有電阻 Volume Resistivity		D257	ohm-cm	-	-	-	<1e5	<1e5	
	表面電阻 Surface Resistivity		D257	ohm/SQ	-	-	-	-	-	
	靜電消散(MIL-PRF-81705C) Static Decay		FTMS-4046.1	sec	-	-	-	-	-	

*PEEK為 PolyEtherEtherKetone(聚醚醚酮)根據ISO1043標準之縮寫 **Tested by factory.

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.