



RTPU 系列複合材料物性表

compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	RTPU, GF10	RTPU, GF20	RTPU, GF30	RTPU, GF40	RTPU, GF50	RTPU, LGF40	RTPU, LGF50	RTPU, CF10	
一般性質	比重 Specific Gravity	D792	-	1.25	1.33	1.42	1.53	1.63	1.51	1.62	1.22	
	成型收縮率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	-	-	
		3.18mm截面			0.2~0.4	0.1~0.3	0.05~0.2	0.05~0.2	0.05~0.2	0.1~0.2	0.1	0.1~0.2
吸水率(24 hours) Water absorption, 24 hrs @ 23°C	D570	%	-	-	-	-	-	-	-	0.014	-	
機械性質	衝擊強度 Impact Strength	3.18mm截面(缺口) Notched Izod	D256	J/m	117	160	187	235	240	320	481	133
		3.18mm截面(無缺口) Unnotched Izod			374	747	1121	1175	1201	1228	1442	747
	伸張強度 Tensile Strength	D638	MPa	76	114	141	176	183	193	220	110	
	延伸率 Tensile Elongation	D638	%	6~8	4~7	4~6	3~5	2~4	2.5~3.5	2.4	4~8	
	伸張模數 Tensile Modulus	D638	MPa	3310	5378	7929	11032	13100	11032	15487	6895	
	彈性強度 Flexural Strength	D790	MPa	103	159	200	255	262	290	331	159	
	彈性模數 Flexural Modulus	D790	MPa	3310	5378	7929	11032	13100	11032	13091	6206	
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	-	-	119 R	-	
熱性質	熱變形溫度 DTUL	at 264 psi (1.82 MPa)	D648	°C	-	-	-	-	-	93	99	-
		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	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	
電氣性質	體積固有電阻 Volume Resistivity	D257	ohm-cm	-	-	-	-	-	-	10e15	-	
	表面電阻 Surface Resistivity	D257	ohm/SQ	-	-	-	-	-	-	-	-	
	靜電消散(MIL-PRF-81705C) Static Decay	FTMS-4046.1	sec	-	-	-	-	-	-	-	-	

* 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.