



PEI 系列复合塑料物性表

compound datasheets

项目 Property		试验法 ASTM Method	单位 Units	PEI, GF10	PEI, GF20	PEI, GF30	PEI, CF10	PEI, CF20	PEI, CF30	
一般性质	比重 Specific Gravity	D792	-	1.34	1.41	1.5	1.31	1.35	1.39	
	成型收缩率 Mold Shrinkage	D955	%	6.35mm截面	-	-	-	-	-	
				3.18mm截面	0.6	0.3	0.2	0.2	0.05	0.05
吸水率(24 hours) Water absorption, 24 hrs @ 23oC	D570	%	0.24	0.21	0.18	0.2	0.2	0.18		
机械性质	冲击强度 Impact Strength	D256	J/m	3.18mm截面(缺口) Notched Izod	53	69	85	48	59	64
				3.18mm截面(无缺口) Unnotched Izod	587	614	683	507	481	507
	伸张强度 Tensile Strength	D638	MPa	128	159	173	157	195	214	
	延伸率 Tensile Elongation	D638	%	4.5	3.5	2.6	3	1.8	1.5	
	伸张模数 Tensile Modulus	D638	MPa	5171	7584	10687	8619	16203	20685	
	弹性强度 Flexural Strength	D790	MPa	183	224	246	231	269	296	
	弹性模数 Flexural Modulus	D790	MPa	4826	6895	9998	7584	13100	17927	
洛氏硬度 Rockwell Hardness	D785	-	-	122 R	123 R	-	-	-		
热性质	热变形温度 DTUL	D648	oC	at 264 psi (1.82 MPa)	207	207	207	207	207	207
				at 66 psi (0.455 MPa)	210	210	210	210	210	210
	连续使用温度 Continuous Use Temp.	UL-746B	oC	-	-	-	-	-	-	
	线性热膨胀系数 Coefficient of Linear Thermal Expansion	D 696	10 ⁻⁵ /oC	3.4	2.7	2.2	-	-	-	
防火等级 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	
电气性质	体积固有电阻 Volume Resistivity	D257	ohm-cm	>1e12	>1e12	>1e12	<1e9	<1e4	<1e3	
	表面电阻 Surface Resistivity	D257	ohm/SQ	-	-	-	-	-	-	
	静电消散(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.