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## FIBERGLASS PULTRUDED PROFILES MECHANICAL PROPERTIES

	PROPRETY	UNIT	TESTING METHOD		DIRECTION	RODS& BARS	SHAPES&TUBES (MAT REINFORCED)
			ASTM TEST	NATIONAL TEST			
<b>Mechanical Properties</b>	TENSILE STRENGTH	KG/cm <sup>2</sup>	D638	GB1447-83	L* T*	5000~9000	2600~5200 400~700
	TENSILE MODULUS	KG/cm <sup>2</sup>	D638	GB1447-83	L* T*	2.5~4.2×10 <sup>5</sup>	1.8~2.7×10 <sup>5</sup> 0.7×10 <sup>5</sup>
	FLEXURAL STRENGTH	KG/cm <sup>2</sup>	D790	GB1449-83	L* T*	5500~9000	3000~5200 1000~1760
	FLEXURAL MODULUS	KG/cm <sup>2</sup>	D790	GB1449-83	L* T*	2.5~4.2×10 <sup>5</sup>	0.9~1.6×10 <sup>5</sup> 0.6×10 <sup>5</sup>
	COMPRESSIVES TRENNGTH	KG/cm <sup>2</sup>	D695	GB1448-83	L* T*	3000~5000	2000~5000 1080~1480
	SHEAR STRENGTH	KG/cm <sup>2</sup>	D732	GB1450-83	L* T*	1540	1540 520
	IZOD IMPACT STRENGTH (VTYPE)	KG.CM/C M <sup>2</sup>	D256	GB1451-83	L* T*	200~500	150~300 50
<b>Electrical Properties</b>	VOLUME RESISTANCE	Ω.CM	D257	GB1410-78		10 <sup>12</sup> ~10 <sup>15</sup>	
	SURFACE RESISTANCE	Ω	D257	GB1470-78		10 <sup>12</sup> ~10 <sup>15</sup>	
	DIELECTRIC CONSTANT		D150	GB1409-79		3~5	
	DISSIPATION FACTOR		D150	GB1409-79		Under 0.05	
	BREAKDOWN VOLTAGE	KV/mm	D149	GB1408-78		13~40	
	ARC RESISTANCE	(S)	D495	GB1411-78		60~180	
<b>OTHERS</b>	SPECIFIC GRAVITY					1.8~2.1	
<b>REMARKS:</b> L* - LONGITUDINAL DIRECTION                      T* - TRANSVERSE DIRECTION							