Energetic Industry Co., Ltd.

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PC Technical Data Sheet

Polycarbonate	Method of Verification	Unit	Technical Data
Physical Properties			
Density	ISO 1183	g/cm3	1.2
Water absorption	ASTMD570	%	0.2
Mechanical Properties			
Tensile strength at yield	ASTMD882	MPa	60
Elongation at break	ASTMD882	%	140
Modulus of elasticity after tensile test	ASTMD882	MPa	60
Modulus of elasticity after flexural test	ASTMD790	MPa	90
Hardness	ASTMD2240	J/M	75
Charpy impact strength at 23℃	ASTMD256	J/M	700-860
Friction coefficient	DIN 53375		0.55
Thermal Properties			
Heat deflection temperature - HDT/A		℃	130-135
Max. service temperature - Long term		℃	110
Thermal conductivity at 23 ℃	ASTMC117	W/m℃	0.19
Coefficient of linear thermal expansion	ASTMD696	Cm/cm℃	7*10-5
Electrical Properties			
Dielectric constant	ASTM D149	kv/mm	30
Dielectric loss factor	ASTM D150	10^6 Hz	0.0083
Volume resistively	ASTM D257	Ω	1*1015
Surface resisively	ASTM D257	Ω	1*1016
Dielectric strength at 1MHZ	ASTM D495	sec	110
Miscellaneous Data			
Flammability	UL 94	Class	V-2
NOTE: 1 g/cm3 = 1,000 kg/m3, 1 Mpa = 1 N/mm2, 1kV/mm = 1 MV/m			

Statement:

The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Energetic will not provide any legally binding guarantee of certain properties, or any suitability.