

PRODUCT DATA SHEET

PC 18822 POLYCARBONATE

Application: Suitable for Injection Modeling

Typical Sales Specification:

SR. NO.	PROPERTY	CONDITION	UNIT	TEST METHOD	VALUE
(A) General Property					
1	Density	.....	g/cm ³	ASTM D-792	1.20
2	Melt Flow Rate (MFR)	@300 C 1.2 Kgs load	g/10mins	ASTM D-1238	18.1-22.0
(B) Mechanical Property					
3	Tensile Strength	@ Yield	Mpa	ASTM D-638	≥ 60
4	Tensile Stress	@ Yield	Mpa	ASTM D-638	60-70
5	Elongation Strain	@ Break	%	ASTM D-638	> 80
6	Modulus Of Elasticity	.....	Mpa	ASTM D-638	2200-2400
7	Charpy Impact Strength	Notched	Kj/m ²	ASTM D-256	≥ 20
8	Ball Indentation Hardness		N/mm ²	DIN 53456	≥103
(C) Electrical Property					
9	Di- Electric Strength	@ 50 Hz Diameter-50 mm Thickness- 2mm	Kv/mm	ASTM D-149	≥ 20
10	Di- Electric Constant	@ 1 MHz	.....	ASTM D-150	2.8-3.1
11	Loss Index	@ 1 MHz	.....	ASTM D-150	0.008-0.011
12	Loss Index	@ 50 MHz	.....	ASTM D-150	0.0008-0.001
(D) Thermal Property					
13	Vicat Softening Temperature	50N,50 C/h	°C	ASTM D-1525	145-150
(E) Optical Property					
14	Transmittance	@Thickness 2mm	%	ASTM D-1003	> 80
15	Solvent Content		ppm	GC	500 max