

PRODUCT DATA SHEET

**PC3859 POLYCARBONATE**

Application: Suitable for Injection Modeling

Typical Sales Specification:

SR. NO.	PROPERTY	CONDITION	UNIT	TEST METHOD	VALUE
<b>(A) General Property</b>					
1	Density	.....	g/cm <sup>3</sup>	ASTM D-792	1.20
2	Melt Flow Rate (MFR)	@300 C 1.2 Kgs load	g/10mins	ASTM D-1238	38.1-59.0
<b>(B) Mechanical Property</b>					
3	Tensile Strength	@Yield	Mpa	ASTM D-638	≥60
4	Tensile Stress	@Yield	Mpa	ASTM D-638	55-70
5	Elongation Strain	@Break	%	ASTM D-638	> 50
6	Modulus Of Elasticity	.....	Mpa	ASTM D-638	2200-2400
7	Ball Indentation Hardness		N/mm <sup>2</sup>	DIN 53456	≥103
<b>(C) Electrical Property</b>					
8	Di- Electric Strength	@ 50 Hz Diameter-50 mm Thickness- 2mm	Kv/mm	ASTM D-149	≥ 20
9	Di- Electric Constant	@ 1 MHz	.....	ASTM D-150	2.8-3.1
10	Loss Index	@ 1 MHz	.....	ASTM D-150	0.008-0.011
11	Loss Index	@ 50 MHz	.....	ASTM D-150	0.0008-0.001
<b>(D) Thermal Property</b>					
12	Vicat Softening Temperature	50N,50 C/h	C	ASTM D-1525	145-150
<b>(E) Optical Property</b>					
13	Transmittance	@Thickness 2mm	%	ASTM D-1003	≥ 80
14	Solvent Content		ppm	GC	500 max