

**Technical Data Sheet**

**PC 1012**  
Polycarbonate

Polycarbonate (PC) plastics are a naturally transparent amorphous thermoplastic. Polycarbonates used in engineering are strong, tough materials, and some grades are optically transparent. They are easily worked, molded, and thermoformed.

**Application:**

- This grade Suitable for injection modeling and Extrusion, Business Machines, Packaging, Sports, Appliances, Electrical, Lighting, Wire and Cable, Automotive, Sheets.

Properties	TE\est. Method	Condition	Unite	Value
MFI (300°C)	ASTM D 1238	1.2 kg,300 °C	g/10 min	10.1-12
Density	ASTM D 792	25 °C	g/cm3	1.2
Tensile Strength	ASTM D 638	@ yield	Mpa	630
Modulus of Elasticity	ASTM D 638	--	Mpa	24000
Elongation	ASTM D 638	@ Break	%	≥100
Dielectric Strength	ASTM D 149	@ 50 Hz	Kv/mm	≥18
Charpy Impact Strength	ASTM D 6110	Notched	Kj/m2	60
Vicat soft. Temp.	ASTM D 1525	50 N, 50 C/h	°C	142-146
Transmittance	ASTM D 01003	Thickness 2mm	%	90
Haze	ASTM D 01003	Thickness 2mm	%	<0.8
Solvent Content	GC(int-st)	25 °C	Ppm	MAX.1000

NOTE: TYPICAL PROPERTIES ARE NOT TO BE COSTRUED AS SPECIFICATIONS.

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PROCESSING GUIDES		
DRING CONDITION		
	Unite	Typical Value
DRY TEMPERATURE	°C	120
DRYING TIME	hr	4
MAXIMUM MOISTURE CONTENT	%	0.02
PROCESSING GUIDES		
INJECTION MOLDING		
	Unite	Typical Value
MELT TEMPERATURE	°C	290-310
NOZZLE TEMPERATURE	°C	280-300
BARREL REAR ZONE TEMPERATURE	°C	290-310
BARREL MIDDLE ZONE TEMPERATURE	°C	280-300
BARREL FRONT ZONE TEMPERATURE	°C	270-290
HOPPER TEMPERATURE	°C	60-80
MOLD TEMPERATURE	°C	60-90