

PC 920 Technical Datasheet

1) Product Description:

PC 920 is a Polycarbonate resin featuring opaque color, low viscosity, and superior flame retardance.

2) Applications:

Automotive parts, home appliances, electrical and electronic applications.

3) Typical data:

Property	Test method	Unit	value
Specific Gravity	ASTM D792	g/cm ³	1.21
Specific Volume	ASTM D792	cm ³ /g	0.835
Density	ASTM D792	g/cm ³	1.25
Melt volume-flow rate,(MFR)300 °C, 1.2kg	ASTM D1238	g/10 min	15
Molding shrinkage-flow (3.20mm)	Internal Method	%	0.50 to 0.70
Water Absorption (24hr)	ASTM D570	%	0.15
Water Absorption Equilibrium, 23°C	ASTM D570	%	0.35
Water Absorption Equilibrium,100°C		%	0.58
Outdoor Suitability	UL 746C		f1
Tensile Strength ² (Yield)	ASTM D638	MPa	62.1
Tensile Strength ² (Break)	ASTM D638	MPa	55.8
Tensile Elongation ² (Yield)	ASTM D638	%	7.0
Tensile Elongation ² (Break)	ASTM D638	%	90
Flexural Modulus ³ (50.0 mm Span)	ASTM D790	MPa	2240
Flexural Stress ³ (Yield, 50.0 mm Span)	ASTM D790	MPa	91.0
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	ASTM D1044	mg	10.0
Notched Izod Impact (23°C)	ASTM D256	J/m	640
Unnotched Izod Impact (23°C)	ASTM D4812	J/m	3200
Gardner Impact (23°C)	ASTM D3029	J	169
Tensile Impact Strength ⁴	ASTM D1822	kJ/m ²	525
Rockwell Hardness MScale	ASTM D785		70
Rockwell Hardness RScale			118
Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm)	ASTM D648	°C	138
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	ASTM D648	°C	132
Vicat Softening Temperature	ASTM D1525 5	°C	152
CLTE Flow (40 to 95°C)	ASTM E831	°C °C	6.8E-5
Thermal Conductivity	ASTM C177		0.19
RTI Elec	UL 746	cm/cm/°C	130
RTI Imp	UL 746	W/m/K	120
RTI Str	UL 746	°C	130

* Typical values not to be construed as specifications.cm