

ASTM Property

 Metric
 SI
 American


Grade	SC-1220R
Resin Type	PC

Physical

Specific Gravity	ASTM D792	Natural Color	-	1.2
Water Absorption	ASTM D570	23°C	%	0.2
Melt Flow Index	ASTM D1238	300°C, 1.2kg	g/10min	22
Mold Shrinkage	ASTM D955	-	%	0.5-0.7

Mechanical

Tensile Strength	ASTM D638	50mm/min	kgf/cm ²	640
Elongation at Break	ASTM D638	5mm/min	%	90
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm ²	940
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm ²	23000
IZOD Impact Strength (notched)	ASTM D256	1/8 inch	kgf·cm/cm	60
Rockwell Hardness	ASTM D785	R-Scale	-	120

Thermal

Heat Deflection Temperature	ASTM D648	18.56kg f/cmf	°C	125
VICAT Softening Temperature	ISO R 306	5kg	°C	140
Linear Thermal Coefficient		40~100°C	x10 ⁻⁵ cm/cm/°C	06월 08일

Flammability

Flammability	UL94	V-2	mm	0.8-3.2
--------------	------	-----	----	---------

Electric

Dielectric Constant			10E6Hz	2.9
Dielectric Loss Tangent			10E6Hz	0.009
Arc Resistance	ASTM D495		sec	110

Optical

Transmissivity	ASTM D1003	3mm	%	89
----------------	------------	-----	---	----

1. The value above is the representative value of the NP standard and may have deviation. It can only be used for selecting materials.
2. The value above shall not be regarded as a material specification and cannot be used for molding designs.

Information inserted in this document such as data, statements, representative values, etc. are provided solely for customer convenience. It does not expressly or impliedly guarantee anything regarding the safety or practicability of the (1) materials, (2) products, and/or (3) design that utilizes recommendations or proposals, of Cheil Industries. Furthermore, nothing in the contents of this document shall have any legal binding effect, and especially, the representative value is simply for reference and is not a minimum value that has legal binding effect.

Whether materials and/or products of Cheil Industries and/or a design that uses or utilizes Cheil Industries's recommendations or proposals are (is) compatible with individual uses shall be determined solely by each user and such user shall be solely responsible for any results, including but not limited to, any and all loss and damages incurred due to such uses. Users must implement and verify all testing and analyses for proving the safety and compatibility of final products that have been created or altered by using Cheil Industries's materials or products. The data and values inserted and/or contained in this document may be changed due to quality improvement of the product without any prior notification.

