

## Physical properties

■ **Grade** : SC-1100UR

Item	Condition	Measuring Method	Unit	Representative
<b>Physical</b>				
Specific Gravity	Natural Color	ASTM D792	-	1.2
Water Absorption	23℃	ASTM D570	%	0.2
Melt Flow Index	300℃ 1.2kg	ASTM D1238	g/10min	10
Mold Shrinkage	-	ASTM D955	%	0.5-0.7
<b>Mechanical</b>				
Tensile Strength	50mm/min	ASTM D638	MPa ( psi ) kgf/cm <sup>2</sup>	63 ( 9,100 ) 640
Elongation at Break	5mm/min	ASTM D638	%	110
Flexural Strength	1.3mm/min	ASTM D790	MPa ( psi ) kgf/cm <sup>2</sup>	90 ( 13,100 ) 920
Flexural Modulus	1.3mm/min	ASTM D790	MPa ( psi ) kgf/cm <sup>2</sup>	2,260 ( 330,000 ) 23,000
IZOD Impact Strength (notched)	1/8 inch	ASTM D256	J/m ( ft·lbf/in ) kgf·cm/cm	883 ( 16.5 ) 90
Rockwell Hardness	R-Scale	ASTM D785	-	120
<b>Thermal</b>				
Heat Deflection Temperature	18.56kgf/cm <sup>2</sup>	ASTM D648	°F ( °C )	257 ( 125 )
Heat Deflection Temperature	4.6kgf/cm <sup>2</sup>	ASTM D648	°F ( °C )	275 ( 135 )
Linear Thermal Coefficient	40~100℃		x10 <sup>-5</sup> cm/cm/°C	6-8
<b>Electric</b>				
Dielectric Constant			10E6Hz	2.9
Dielectric Loss Tangent			10E6Hz	0.009

Arc Resistance		ASTM D495	Sec	110
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**Optical**

Transmissivity	3mm	ASTM D1003	%	89
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HAZE	3mm	ASTM D1003	%	< 0.8
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**Flammability**

UL 94 Classification	1.6-1.7 mm specimen		ALL	V-2
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