

Physical properties

■ Grade : SC-1100UR

Item	Condition	Measuring Method	Unit	Representative
Physical				
Specific Gravity	Natural Color	ASTM D792	-	1.2
Water Absorption	23 °C	ASTM D570	%	0.2
Melt Flow Index	300 °C 1.2kg	ASTM D1238	g/10min	10
Mold Shrinkage	-	ASTM D955	%	0.5-0.7
Mechanical				
Tensile Strength	50mm/min	ASTM D638	MPa (psi) kgf/cm ²	63 (9,100) 640
Elongation at Break	5mm/min	ASTM D638	%	110
Flexural Strength	1.3mm/min	ASTM D790	MPa (psi) kgf/cm ²	90 (13,100) 920
Flexural Modulus	1.3mm/min	ASTM D790	MPa (psi) kgf/cm ²	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
Thermal				
Heat Deflection Temperature	18.56kgf/cm ²	ASTM D648	°F (°C)	257 (125)
Heat Deflection Temperature	4.6kgf/cm ²	ASTM D648	°F (°C)	275 (135)
Linear Thermal Coefficient	40~100 °C		x10 ⁻⁶ 5cm/cm/°C	6-8
Electric				
Dielectric Constant			10E6Hz	2.9
Dielectric Loss Tangent			10E6Hz	0.009

Arc Resistance		ASTM D495	Sec	110
Optical				
Transmissivity	3mm	ASTM D1003	%	89
HAZE	3mm	ASTM D1003	%	< 0.8
Flammability				
UL 94 Classification	1.6-1.7 mm specimen		ALL	V-2