

Physical properties

■ **Grade** : SC-1220UR

Item	Condition	Measuring Method	Unit	Representative
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Physical

Specific Gravity	Natural Color		—	1.2
Water Absorption	23℃		%	0.2
Melt Flow Index	300℃ 1.2kg		g/10min	22
Mold Shrinkage	—		%	0.5~0.7

Mechanical

Tensile Strength	50mm/min		MPa (psi) kgf/cm ²	63 (9,100) 640
Elongation at Break	5mm/min		%	90
Flexural Strength	1.3mm/min		MPa (psi) kgf/cm ²	90 (13,100) 920
Flexural Modulus	1.3mm/min		MPa (psi) kgf/cm ²	2,260 (330,000) 23,000
IZOD Impact Strength (notched)	1/8 inch		J/m (ft·lbf/in) kgf·cm/cm	736 (13.8) 75
IZOD Impact Strength (notched)	1/4 inch		J/m (ft·lbf/in) kgf·cm/cm	147 (2.8) 15
Rockwell Hardness	R-Scale		—	120
Rockwell Hardness	M-Scale		—	77

Thermal

Heat Deflection Temperature	18.56kgf/cm ²		°F (°C)	275 (135)
Heat Deflection Temperature	4.6kgf/cm ²		°F (°C)	295 (146)
Linear Thermal Coefficient	40~100℃		x10 ⁻⁶ 5cm/cm/℃	5.5~6.5

Electric

Volume Resistivity			Ωcm	3.0*E16
Dielectric Constant			10E6Hz	2.9

Dielectric Loss Tangent			10E6Hz	0.009
Arc Resistance			Sec	110

Optical				
Transmissivity	3mm		%	89
HAZE	3mm		%	< 0.8

Flammability				
UL 94 Classification	1.6 mm specimen		ALL	V-2