

Lotte® BF-0670T

Scratch resistant material that is used in the exterior of electric products and household appliances
Information provided by Samsung Cheil Industries.

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 - 0.0060 cm/cm @Thickness 3.20 mm	0.0030 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	23 g/10 min @Load 10.0 kg, Temperature 220 °C	23 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	50.0 MPa	7250 psi	5 mm/min; ASTM D638
Elongation at Break	18 %	18 %	5 mm/min; ASTM D638
Flexural Strength	73.5 MPa	10700 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.35 GPa	341 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.735 J/cm @Thickness 3.17 mm	1.38 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C @Thickness 6.40 mm	176 °F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	89.0 °C	192 °F	B/50; ISO R306
Flammability, UL94	HB @Thickness 1.50 - 3.00 mm	HB @Thickness 0.0591 - 0.118 in	

Descriptive Properties			
Pencil Hardness		HB	1000g, JIS K 5401