

Lotte® BF-0370

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	1.05 g/cc	1.05 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
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Melt Flow	18 g/10 min @Load 10.0 kg, Temperature 220 °C	18 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238
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Mechanical Properties	Metric	English	Comments
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Hardness, Rockwell R	112	112	ASTM D785
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Tensile Strength, Yield	51.0 MPa	7400 psi	5 mm/min; ASTM D638
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Elongation at Break	25 %	25 %	5 mm/min; ASTM D638
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Flexural Strength	75.5 MPa	11000 psi	2.8 mm/min; ASTM D790
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Flexural Modulus	2.45 GPa	356 ksi	2.8 mm/min; ASTM D790
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Izod Impact, Notched	1.27 J/cm @Thickness 6.35 mm	2.39 ft-lb/in @Thickness 0.250 in	ASTM D256
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	1.47 J/cm @Thickness 3.17 mm	2.76 ft-lb/in @Thickness 0.125 in	ASTM D256
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Thermal Properties	Metric	English	Comments
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Deflection Temperature at 1.8 MPa (264 psi)	89.0 °C @Thickness 6.40 mm	192 °F @Thickness 0.252 in	ASTM D648
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Vicat Softening Point	102 °C	216 °F	B/50; ISO R306
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Flammability, UL94	HB @Thickness 1.00 - 3.00 mm	HB @Thickness 0.0394 - 0.118 in	
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Descriptive Properties			
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Pencil Hardness	HB		1000g, JIS K 5401
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