

Samsung Cheil Industries Infino[®] HP-0500 ABS, Unreinforced Heat Resistant

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Heat Resistant, Molded

Material Notes:

ABS material that can mainly be used for the exterior material of household appliances etc. Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-HP-0500-ABS-Unreinforced-Heat-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Melt Flow	20 g/10 min @Load 10.0 kg, Temperature 220 Å°C	20 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D785
Tensile Strength at Break	19.6 MPa	2840 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	51.0 MPa	7400 psi	5 mm/min; ASTM D638
Elongation at Break	39 %	39 %	5 mm/min; ASTM D638
Tensile Modulus	2.55 GPa	370 ksi	5 mm/min; ASTM D638
Flexural Strength	79.4 MPa	11500 psi	2.8 mm/min; ASTM D790
Flexural Modulus	2.55 GPa	370 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	1.27 J/cm @Thickness 6.35 mm	2.39 ft-lb/in @Thickness 0.250 in	ASTM D256
	1.27 J/cm @Thickness 3.17 mm	2.39 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	99.0 Å°C @Thickness 6.40 mm	210 Å°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	91.0 Å°C @Thickness 6.40 mm	196 Å°F @Thickness 0.252 in	ASTM D648
Vicat Softening Point	103 Å°C	217 Å°F	B/50; ISO R306

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	CPUL94 R306
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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