

Samsung Cheil Industries Infino® AR-5300H PBT/ASA, 30% Glass Filled

Category : Polymer , Thermoplastic , ASA Polymer , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + ASA Blend, Glass Fiber Reinforced

Material Notes:

Information provided by Samsung Cheil Industries.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-Infino-AR-5300H-PBTASA-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.45 g/cc	1.45 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.20 mm	0.0030 in/in @Thickness 0.126 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 cm/cm @Thickness 3.20 mm	0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	30 g/10 min @Load 5.00 kg, Temperature 250 °C	30 g/10 min @Load 11.0 lb, Temperature 482 °F	ASTM D1238
Ash	30 %	30 %	ASTM D5630

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength at Break	127 MPa	18400 psi	5 mm/min; ASTM D638
Tensile Strength, Yield	132 MPa	19200 psi	5 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	5 mm/min; ASTM D638
Tensile Modulus	8.83 GPa	1280 ksi	5 mm/min; ASTM D638
Flexural Strength	186 MPa	27000 psi	2.8 mm/min; ASTM D790
Flexural Modulus	9.32 GPa	1350 ksi	2.8 mm/min; ASTM D790
Izod Impact, Notched	0.686 J/cm @Thickness 6.35 mm	1.29 ft-lb/in @Thickness 0.250 in	ASTM D256
	0.785 J/cm @Thickness 3.17 mm	1.47 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
	205 °C	401 °F	

Deflection Temperature at 0.46 MPa (psi) Thermal Properties	Metric @ Thickness 6.40 mm	English @ Thickness 0.252 in	ASTM D648 Comments
Deflection Temperature at 1.8 MPa (264 psi)	190 Â°C @Thickness 6.40 mm	374 Â°F @Thickness 0.252 in	ASTM D648

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