

SABIC Innovative Plastics LNP COLORCOMP A1000H ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

LNP* COLORCOMP* A1000H is an unfilled compound based on ABS. Added feature of this grade is: Healthcare.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-COLORCOMP-A1000H-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Moisture Absorption	0.200 %	0.200 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	1.0 %	1.0 %	ISO 62
Viscosity	230000 cP	230000 cP	Melt Viscosity, 240°C, 1000 sec-1; ASTM D3825
Melt Flow	5.6 g/10 min	5.6 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
Melt Index of Compound	19 g/10 min	19 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
Melt Index of Compound	14 g/10 min	14 g/10 min	MVR [cm ³ /10 min]; ISO 1133
	@Load 5.00 kg, Temperature 220 °C	@Load 11.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	33.0 MPa	4790 psi	Type I, 5 mm/min; ASTM D638
	35.0 MPa	5080 psi	
Tensile Strength, Yield	44.0 MPa	6380 psi	Type I, 5 mm/min; ASTM D638
	50.0 MPa	7250 psi	
Elongation at Break	24 %	24 %	Type I, 5 mm/min; ASTM D638
	24.8 %	24.8 %	
Elongation at Yield	2.0 %	2.0 %	Type I, 5 mm/min; ASTM D638
	2.6 %	2.6 %	

Tensile Modulus Mechanical Properties	2.27 GPa Metric	329 ksi English	5 mm/min; ASTM D638 Comments
	2.53 GPa	367 ksi	1 mm/min; ISO 527
Flexural Yield Strength	72.0 MPa	10400 psi	1.3 mm/min, 50 mm span; ASTM D790
	76.0 MPa	11000 psi	2 mm/min; ISO 178
Flexural Modulus	2.34 GPa	339 ksi	1.3 mm/min, 50 mm span; ASTM D790
	2.41 GPa	350 ksi	2 mm/min; ISO 178
Izod Impact, Notched	3.20 J/cm	5.99 ft-lb/in	ASTM D256
	1.33 J/cm	2.49 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Izod Impact, Notched (ISO)	23.0 kJ/m ²	10.9 ft-lb/in ²	80*10*4; ISO 180/1A
	8.00 kJ/m ²	3.81 ft-lb/in ²	80*10*4; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.80 J/cm ²	8.57 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	30.0 J	22.1 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	88.2 µm/m-°C	49.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	88.2 µm/m-°C	49.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	88.2 µm/m-°C	49.0 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	88.2 µm/m-°C	49.0 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 0.46 MPa (66 psi)	94.0 °C	201 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	80.0 °C Metric	176 °F English	Flatw 80*10*4 sp=64mm; ISO 75/At Comments
	80.0 °C @Thickness 3.20 mm	176 °F @Thickness 0.126 in	unannealed; ASTM D648
Vicat Softening Point	98.0 °C	208 °F	Rate B/50; ASTM D1525
	100 °C	212 °F	Rate B/50; ISO 306
	100 °C	212 °F	Rate B/120; ISO 306
UL RTI, Electrical	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical with Impact	60.0 °C	140 °F	UL 746B
UL RTI, Mechanical without Impact	60.0 °C	140 °F	UL 746B
Flammability, UL94	HB @Thickness 1.52 mm	HB @Thickness 0.0598 in	UL 94

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	Tungsten; ASTM D495
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	UL 746A
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 5.91 in/min	UL 746A

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