

SABIC Innovative Plastics LNP Stat-kon AD000Z ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Carbon Black Filled

Material Notes:

LNP* Stat-Kon AD000Z is a compound based on ABS resin with carbon powder. Grade characteristics: a statically conductive extrusion grade. This data was supplied by SABIC-IP for the Americas region.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Stat-kon-AD000Z-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D 792
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D 792
Moisture Absorption at Equilibrium	0.41 %	0.41 %	23Â°C / 50% RH; ISO 62
	0.28 %	0.28 %	50% RH; ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D 955
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.0 MPa	5370 psi	Type I, 5 mm/min; ASTM D 638
	37.0 MPa	5370 psi	5 mm/min; ISO 527
Tensile Strength, Yield	41.0 MPa	5950 psi	Type I, 5 mm/min; ASTM D 638
	41.0 MPa	5950 psi	5 mm/min; ISO 527
Elongation at Break	2.5 %	2.5 %	Type I, 5 mm/min; ASTM D 638
	2.7 %	2.7 %	5 mm/min; ISO 527
Elongation at Yield	1.9 %	1.9 %	Type I, 5 mm/min; ASTM D 638
	1.9 %	1.9 %	5 mm/min; ISO 527
Tensile Modulus	2.68 GPa	389 ksi	1 mm/min; ISO 527
	2.77 GPa	402 ksi	50 mm/min; ASTM D 638
Flexural Modulus	2.57 GPa	373 ksi	2 mm/min; ISO 178

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	0.340 J/cm @Temperature 23.0 Å°C	0.637 ft-lb/in @Temperature 73.4 Å°F	ASTM D 256
Izod Impact, Unnotched	3.96 J/cm @Temperature 23.0 Å°C	7.42 ft-lb/in @Temperature 73.4 Å°F	ASTM D 4812
Izod Impact, Notched (ISO)	4.00 kJ/mÅ² @Temperature 23.0 Å°C	1.90 ft-lb/inÅ² @Temperature 73.4 Å°F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	22.0 kJ/mÅ² @Temperature 23.0 Å°C	10.5 ft-lb/inÅ² @Temperature 73.4 Å°F	80*10*4; ISO 180/1U
Impact Test	1.00 J	0.738 ft-lb	Multiaxial Impact; ISO 6603
	3.00 J @Temperature 23.0 Å°C	2.21 ft-lb @Temperature 73.4 Å°F	Instrumented Impact Total Energy; ASTM D 3763
	3.00 J @Temperature 23.0 Å°C	2.21 ft-lb @Temperature 73.4 Å°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 Å°C	203 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	96.0 Å°C @Thickness 3.20 mm	205 Å°F @Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	84.0 Å°C	183 Å°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	85.0 Å°C @Thickness 3.20 mm	185 Å°F @Thickness 0.126 in	unannealed; ASTM D 648

Electrical Properties	Metric	English	Comments
Surface Resistance	3.0 - 6.0 ohm	3.0 - 6.0 ohm	ASTM D 257

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